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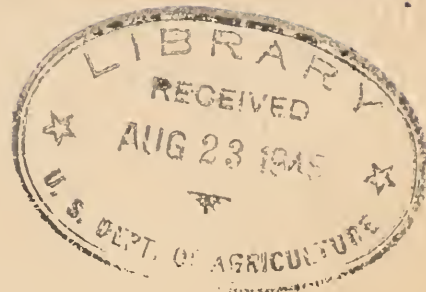
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Reserve

LAND USE

in

BACA COUNTY, COLORADO



Based on
a
Field Survey

Land Utilization Program
Bureau of Agricultural Economics

April 1, 1938

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in
BACA COUNTY, COLORADO

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TO THE

MEMBERS OF THE

COMMISSION

THE NATIONAL ACADEMY OF SCIENCES
OF THE UNITED STATES OF AMERICA
WASHINGTON, D. C.

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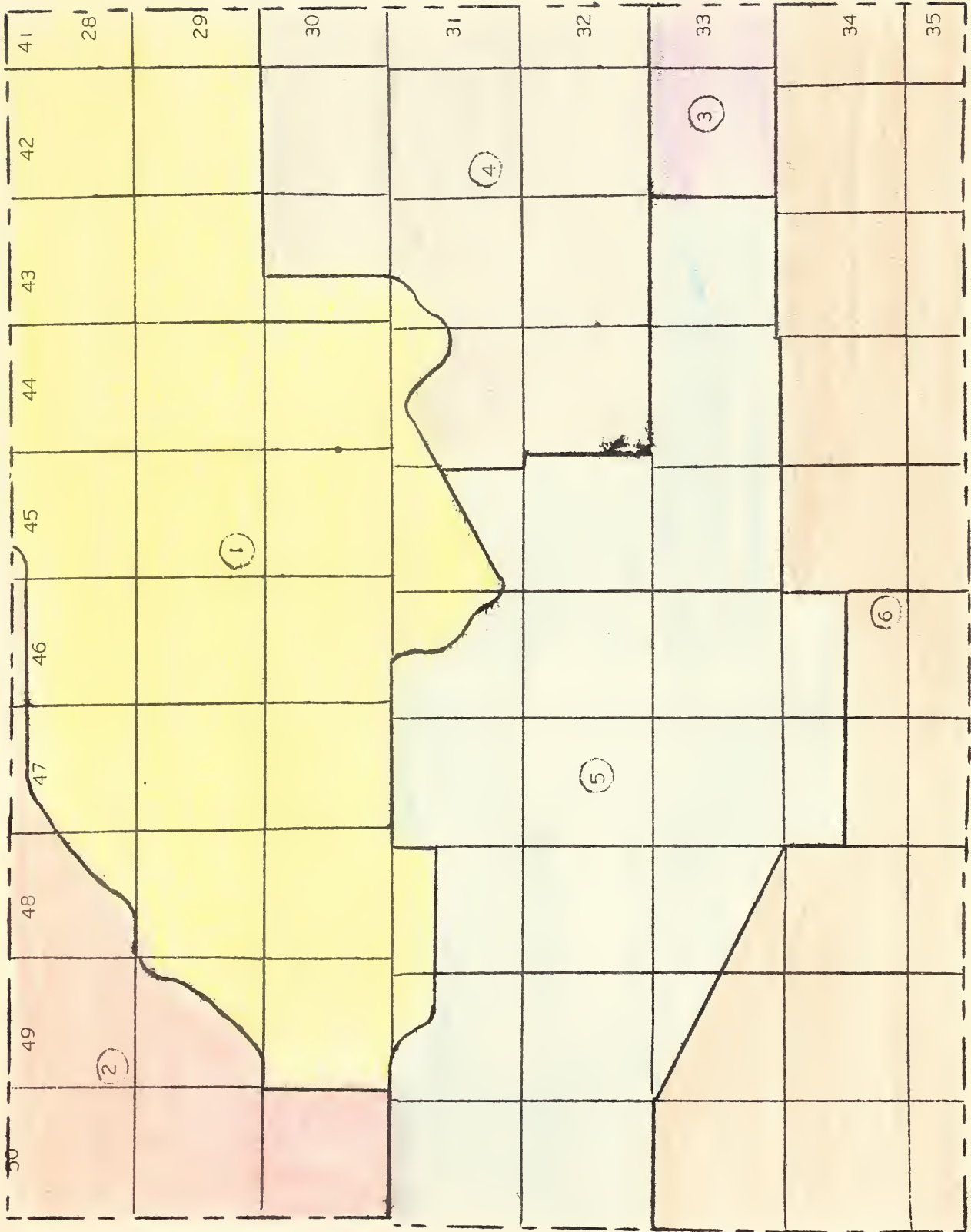
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SUGGESTED LAND USE BY AREAS BACA COUNTY , COLORADO



NEED FOR A COMPREHENSIVE LAND USE SURVEY

In 1936, operating under funds allotted by the Resettlement Administration, a comprehensive land use survey was made of Baca county. This county is one of the 14 southeastern Colorado counties designated in the "dust bowl" area of the state.

In this county, as in the other counties of this area, the continued drouth had its disastrous effects upon the farm operators; few crops had been produced for several years; livestock operators had been forced to sell large numbers of their stock; the number of people on relief rolls was large and a considerable number of persons were leaving the county, seeking new homes.

No adequate inventory of the natural and human resources of the county existed. This information is necessary to determine what land use and social adjustments are necessary.

METHOD OF CONDUCTING THE SURVEY

In conducting this survey every operator in the county was contacted and a schedule of his operators taken. In addition to the schedule*, a plat was made of all land under his control. On this plat the actual land use was designated. This information was then transferred to a large county map. A complete land use picture of the entire county was thus obtained. When this information had all been gathered in the field, it was sent to the regional office at Amarillo and placed in final form.

*Sample schedule in Appendix B

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COOPERATION WITH EXTENSION SERVICE

On January 29, 1938, the Colorado Extension Service met with a representative group of Baca county farmers to discuss with them a program of long time agricultural planning for the county. Great interest was evidenced at this meeting and another was asked for as soon as possible. The second meeting was held on February 12, 1938. The results of these meetings are included in this report as Appendix D.

DEFINITION OF TERMINOLOGY

1. Land within operating units:

Under some type of organized management. Land that is either owned or leased by the operator.

2. Land outside operating units:

Not under any type of organized management.

3. Crop land:

Land planted to crops at the time the survey was made.

4. Pasture land:

Land that maintains its native cover.

5. Idle land:

Plowed land that is under organized management, but is not being utilized for growing of crops.

6. Fallow land:

Land that is tilled and allowed to lay idle prior to seeding wheat or other crops.

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7. Open pasture:
Land that maintains its native cover and is not under organized management.
8. Abandoned crop land:
Land that has been plowed and is not under organized management.
9. Small grain:
Small grain is virtually all wheat.
10. Livestock operator:
A farm operator whose major income is from the sale of livestock.
11. Crop operator:
A farm operator whose major income is from the sale of crops.
12. General operator:
A farm operator whose income is approximately 50 percent from livestock and 50 percent from crops.
13. Non-resident owner:
An individual who owns land within a county, but who resides in another county, state or foreign country.
14. Resident owner:
An individual who owns the land upon which he resides.
15. Corporation owner:
Land that is owned by a corporation, (Insurance companies, railroads, etc.)

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16. Non-resident operator in the county:

Operator who farms land in the county of his residence, but does not reside on the farm.

17. Non-resident operator out of county:

Operator who farms land in a county other than that of his residence.

18. Resident operator:

Operator who lives on the farm.

CLIMATE

The climate in Bace county is typical of that found throughout the high plains area. It is a region of light rainfall, with several years of drouth often occurring in succession. Temperatures vary greatly as the seasons change. Although summer temperatures are high during the day, nights are cool. In addition a brisk wind movement reduces the heat. In winter, temperatures down to zero are not uncommon. However, low humidity prevails making the cold less intense.

TOPOGRAPHY

The topography of the county is varied. The east half, with the exception of a narrow strip along the south is generally level. In the west half it fluctuates from land that is gently rolling to very rough areas. The northwest and southwest corners are rough areas of this type.

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CONCLUSION

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Climatic Data for Baca County (Station at Two Buttes)

Source: U. S. Weather Bureau

:	Jan.:	Feb.:	Mar.:	Apr.:	May	June:	July:	Aug.:	Sept:	Oct.:	Nov.:	Dec.:	Annu.:	Seas.:	Year:
<u>Precipitation</u>															
Annual mean	.28	.58	.66	1.53	2.14	1.91	2.30	1.77	1.35	.82	.50	.56	14.40	11.00	40
No. days with															
.01 in. or more	2	2	2	5	6	5	7	5	3	3	2	2	44		30
Minim. mthly	-	-	T	-	.11	.16	.15	.05	T	-	-	-	-	-	40
Maxim. mthly	1.07	2.21	3.64	6.31	6.08	8.05	8.56	6.63	4.17	3.94	1.97	2.31	-	-	40
Driest year	.35	.08	.12	.31	2.19	.88	.35	.57	2.13	.89	.01	.58	8.46		1936
Wettest year	.78	.02	1.64	.75	2.56	4.42	4.06	.97	4.17	.63	.85	2.31	23.16		1891
<u>Snow</u>															
Ave. snowfall (Inches)	2.6	4.9	2.7	2.2	.2	-	-	-	.1	.4	1.6	2.7	17.4		33
<u>Temperature</u>															
Mean	31.1	33.2	42.6	51.9	61.2	71.2	76.6	75.4	67.5	54.9	42.4	31.8	53.3		33
Mean maxim.	46.4	48.5	59.1	67.9	76.8	86.5	91.9	91.5	84.0	71.8	59.4	46.6	69.2		33
Mean minim.	15.8	18.0	26.1	35.9	45.5	56.0	61.2	59.3	51.0	38.0	25.5	17.1	37.4		34
Highest	80	78	94	92	100	110	111	111	105	94	85	78	111		34
Lowest	-20	-26	-16	10	14	31	40	39	27	-2	-8	-18	-26		34
<u>Wind</u>															
Prevailing wind direction*	W	NE	W	N	SE	NE	NE	SW	NE	NE	NE	N	NE		21
Ave. hourly wind velocity*	7.8	8.6	9.1	10.6	10.0	9.2	7.9	7.9	8.2	8.0	7.0	7.2	8.5		

FROST DATA

Average date of last killing frost in Spring - May 2
Average date of first killing frost in Autumn - October 13
Average length of growing season - 164 days
Latest date with temperature 32 degrees or lower in Spring - June 2
Earliest date with temperature of 32 degrees or lower in Autumn - September 17

REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE, FOR THE YEAR 1890.

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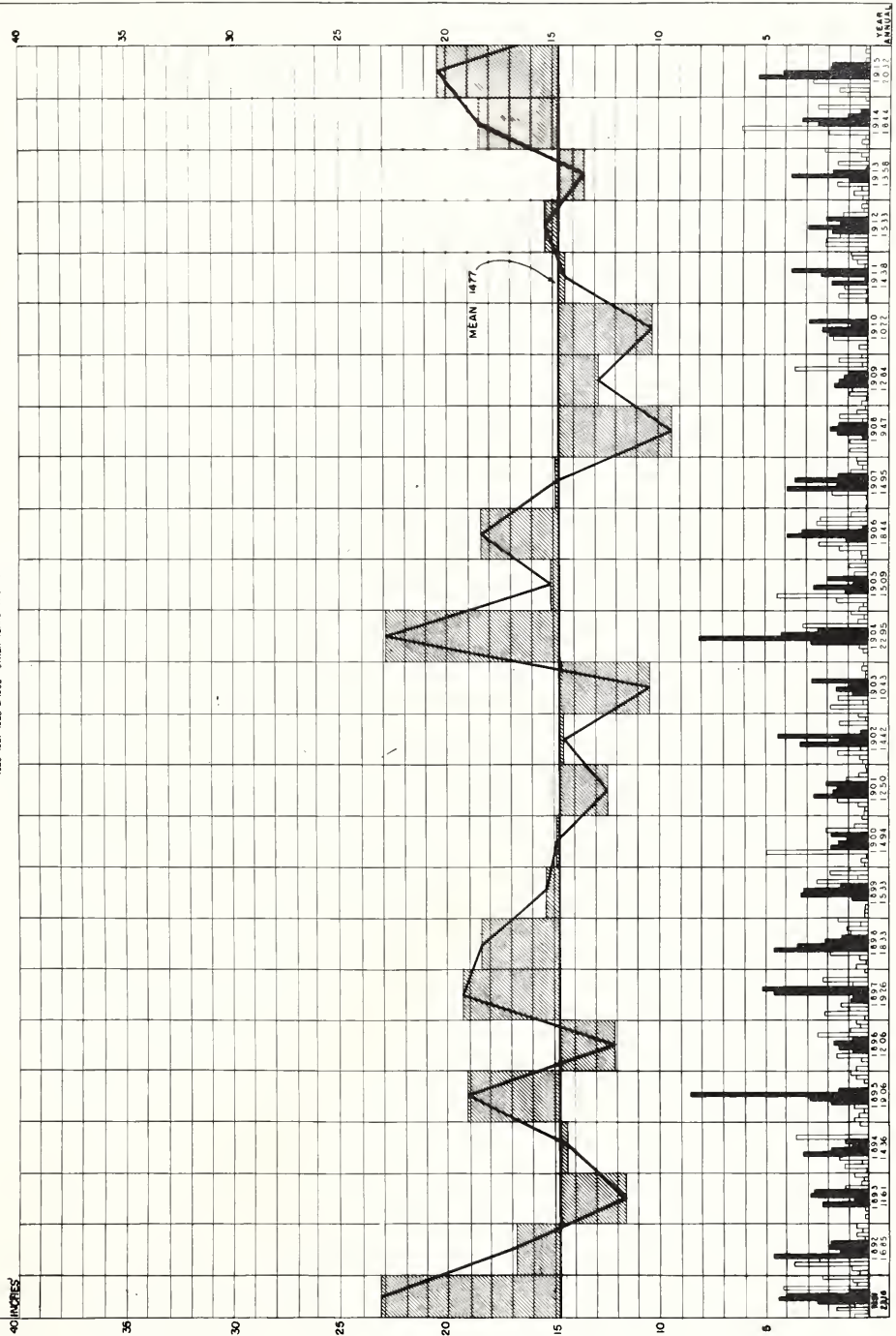
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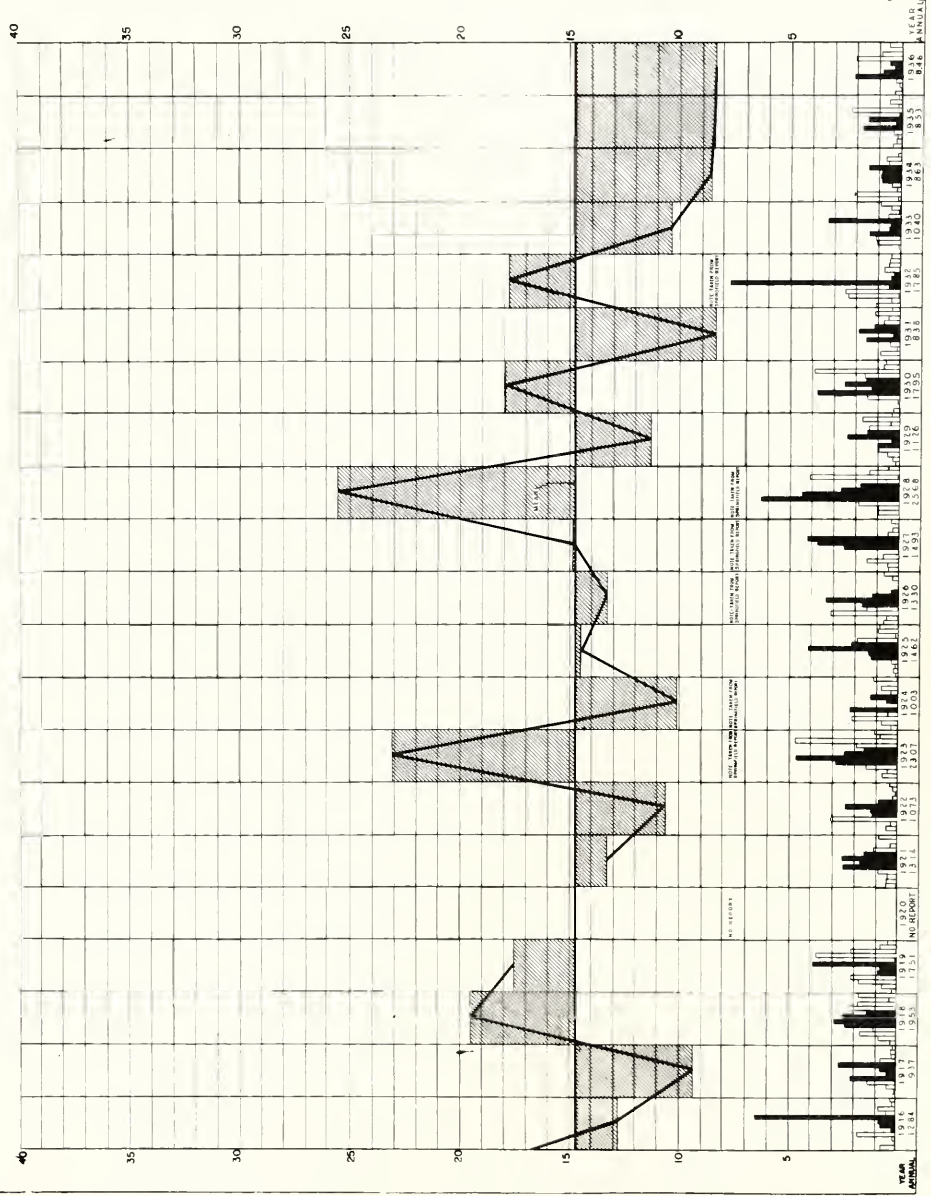
ANNUAL AND MONTHLY PRECIPITATION AT TWO BUTTES BACA COUNTY COLORADO

NOTE
SUBSTITUTING SPRINGFIELD FOR YEARS 1923-1924
1926-1927-1928 & 1932-OTHER YEARS TWO BUTTE



ANNUAL AND MONTHLY PRECIPITATION AT TWO BUTTES BACA COUNTY COLORADO

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SUBSTITUTING SPRINGFIELD FOR YEARS 1923-1924
1926-1927 1928 & 1932 - OTHER YEARS TWO BUTTES



SOILS

The discussion on soils can best be understood by utilizing the soils map that accompanies this report. A glance at it will show that the county is divided into six areas according to land use and soil types.

In Area 1, although the composition varies greatly, the predominate type of soil is loam. It is classified in the following manner: granular to cloddy loams; silt loams; clay loams; and silty clay loams. This is known as the "hard land" area of the county. Both small grains and row crops are grown. Soils in this area are moderately susceptible to wind and water erosion.

Area 2 contains all of the soil types found in the county. The loams contain considerable more sand than those in Area 1. For this reason they are quite susceptible to wind and water erosion. A large portion of the area is rough broken land, frequently stony and subject to considerable erosion. The land is used principally for grazing purposes and row crop production. A little small grain is grown in selected areas.

Area 3 consists entirely of loams of various classifications. Heavy textured, silty clay loams make up the surface soils. The subsoils are decidedly heavier and numerous lime concretions are found below 18 inches. This area is used for both small grains and row crop. It is quite susceptible to wind erosion.

In Area 4 the surface soils consist of fine sandy loams and silty clay loams. Small grains and row crops are both grown. The

The following is a list of the names of the persons who have been

admitted to the office of the Secretary of the State of New York.

The names of the persons who have been admitted to the office of the

Secretary of the State of New York are as follows:

1. John A. B. Smith, Secretary of the State of New York.

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20. John A. B. Smith, Secretary of the State of New York.

LAND USE PLANNING DIVISION
 SOIL CONSERVATION SURVEY
 SOIL TYPES MAP
 BACA COUNTY, COLORADO

THIS MAP SHOWS SOIL TYPES AND SOIL CONSERVATION ZONES. SOIL TYPES ARE INDICATED BY SHADING AND SOIL CONSERVATION ZONES ARE INDICATED BY BOUNDARIES. SOIL TYPES ARE BASED ON THE SOIL CONSERVATION SURVEY. SOIL CONSERVATION ZONES ARE BASED ON THE SOIL CONSERVATION SURVEY. SOIL TYPES ARE BASED ON THE SOIL CONSERVATION SURVEY. SOIL CONSERVATION ZONES ARE BASED ON THE SOIL CONSERVATION SURVEY.

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area has suffered severe wind erosion in places.

The soils in Area 5 grade from loamy sands to fine sandy loams. Severe wind erosion is prevalent over most of the area. Land is used almost solely for the growing of row crops.

In Area 6 the soils, for the most part, contain considerable amounts of sand. Loamy sand and light sandy loams prevail. Farming operations are confined chiefly to growing row crops. Much of the land is severely eroded. There is in the southwest part of the area a considerable amount of rough hilly land that is used for grazing purposes.

POPULATION

In 1936 the rural population had decreased considerably below 1930 figures. The land use survey showed 958 resident operators in the county. The total number of people living on farms was 3,920.

Recent careful estimates place the number of farm families at approximately 600. This is a very substantial reduction from the 1936 figure. Approximately two thirds of the rural residents of Baca county have moved elsewhere since 1930.

Population Trends 1890 - 1930

Year	P o p u l a t i o n		Source: Census
	:	:	Index (1890 as base)
1890	:	1,479	100.0
1900	:	759	- 5.1
1910	:	2,516	*170.0
1920	:	8,721	*590.0
1930	:	10,570	*715.0

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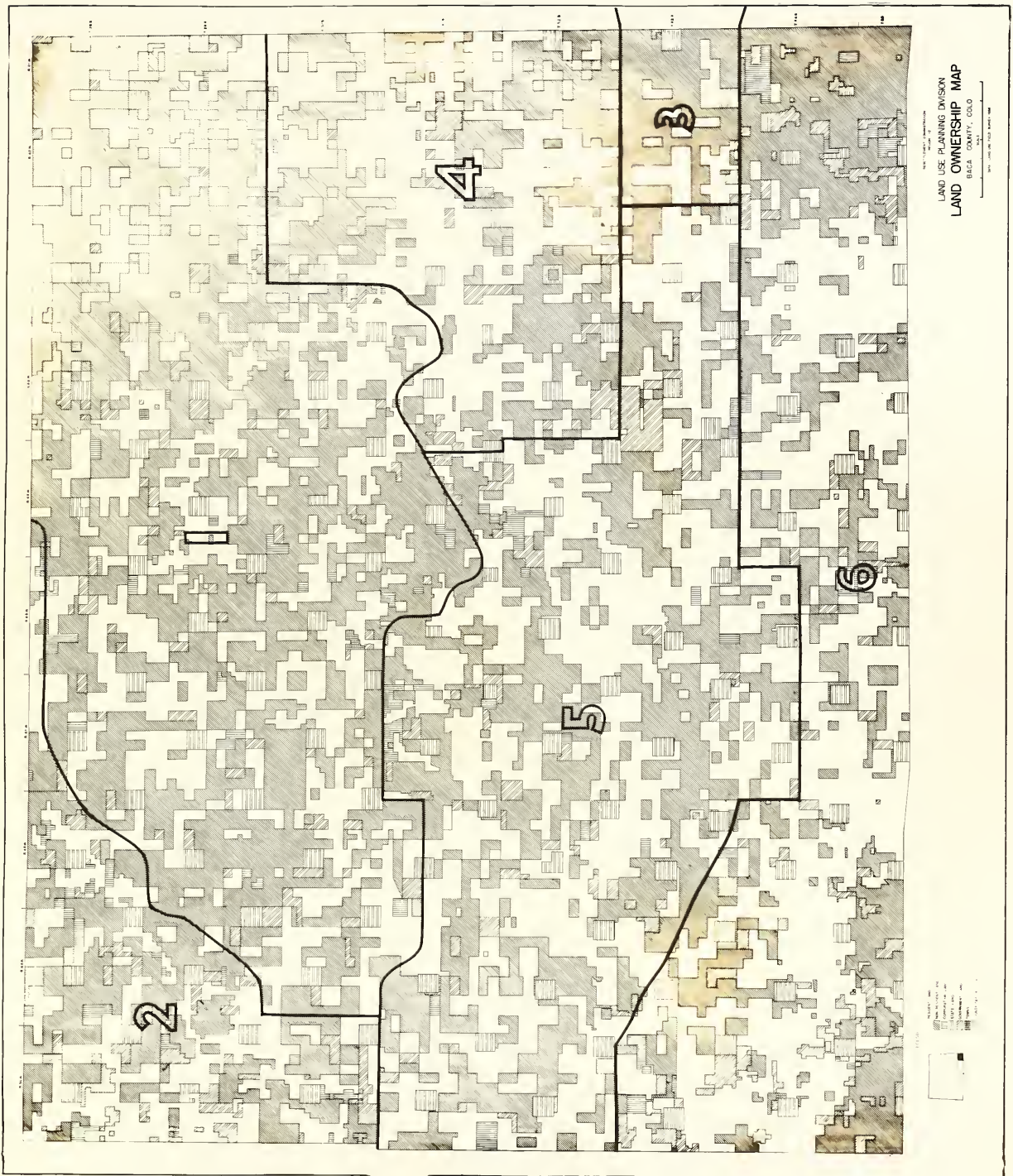
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Population Trends 1930 - 1935

Year	Population	Change
1930	1,430	1,430
1931	1,430	0
1932	1,430	0
1933	1,430	0
1934	1,430	0
1935	1,430	0

LAND OWNERSHIP

There are 1,621,863 acres in Baca county. (For complete figures see table) 108,702, or 6.7 percent, are public lands. There are 24,224 acres, or 1.5 percent, owned by corporations; while private ownership holds 1,488,937 or 91.8 percent. Non-residents own 742,915 acres or 45.8 percent of all the land in the county. This is a high percentage and presents a serious problem. A glance at the ownership map will show that the non-resident land is scattered throughout the county. Areas 1 and 3 contain the highest percentage of non-resident owned land, the percentages being 56.0 and 67.5 respectively. This is to be expected as the soil of these areas lends itself to wheat growing. A speculative type of farming is possible in these areas, and as a result, has encouraged non-resident ownership. With the non-resident ownership has come all the abuses common to this type of ownership. The soil of these areas, as over most of the county, is quite susceptible to wind erosion even when given the best of care. The non-resident owner generally is not in a position to protect his land and in other cases appears not to care what happens to it. The result is that much of this land is creating a serious hazard from a wind erosion. This does not mean that resident owned land does not blow. Often it blows badly and little or no effort is made to control it. It is much easier for the resident owners who are on the ground to devise and execute methods by which blowing may be controlled.



1935 Ownership of Land
By Acres and Percent

Land Ownership Survey-1936

		Area	Area	Area	Area	Area	Area	Area	Total
		1	2	3	4	5	6		
	No.								
Federal	%		2,440				5,062		7,502
			1.8				1.4		.5
State	No.	24,446	6,280	1,120	10,080	20,235	16,021		78,182
	%	4.8	4.7	3.3	4.9	5.1	4.6		4.8
County Tax Sale	No.	3,060	2,716	160	8,640	8,414	28		23,018
	%	.6	2.0	.5	4.2	2.1	.1		1.4
Corporation	No.	6,341	4,768	320	480	7,598	4,717		24,224
	%	1.2	3.6	.9	.2	1.9	1.3		1.5
Resident	No.	189,064	56,470	9,456	107,621	204,302	179,109		746,022
	%	37.4	42.3	27.8	52.6	51.9	51.3		46.0
Non-resident	No.	283,187	60,881	22,972	77,920	153,597	144,358		742,915
	%	56.0	45.6	67.5	38.1	39.0	41.3		45.8
Total	No.	506,098	133,555	34,028	204,741	394,146	349,295		1,621,863
	%	100.0	100.0	100.0	100.0	100.0	100.0		100.0

LAND USE

There are 765,669 acres or 46.8 percent of all the land plowed in Baca county. This is the highest ratio of broken land in pasture of any Colorado county in the "dust bowl". This high percentage of plowed land presents serious problems from a land use point of view.

At the time the survey was made the 765,669 acres of broken land was being used as follows. (For complete figures see tables 1, 2, and 3) Wheat accounts for 27,653 acres or 3.6 percent. Row crops were planted on 283,696 acres or 37.1 percent. There were 51,003 acres or 6.6 percent left fallow. Idle land accounts for 84,650 acres, this being 11.1 percent. The remaining plowed land is abandoned crop and amounts to 317,919 acres or 41.6 percent.

In a study of land use in Baca county one of the striking features is the large amount of open land in the county. There were, at the time of the survey, 737,509 acres of open land. Of this amount 317,919 acres were abandoned crop land outside of operating units, and 419,590 acres were open pasture outside of operating units. The open land amounts to 45.1 percent of the total in the county.

The abandoned crop land presents a serious problem from the standpoint of wind erosion. Much of it is non-resident owned and as a result received little treatment to prevent blowing.

The large amount of open pasture land is used as "free range" by the operators of the county, as well as by non-resident stockmen.

There are 10,000 acres of land in the county, of which 5,000 acres are in the hands of the government. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton.

At the time the survey was made in 1944, the land was being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton.

In a study of the land in the county, it was found that the land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton. The land is being used for the purpose of growing cotton.

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Many operators frankly state that if it were not for this "free range" they could not possibly exist. Since it is used generally and no rent is paid for its use, the land is subject to no responsible control and as a result is very badly overgrazed and depleted. This creates a hazardous condition for wind and water erosion.

AREA 1

Area 1 is located in the north central and northeastern part of the county. (See map) It includes 506,859 acres or 31 percent of all the land in the county. At the time of the survey, 276,702 acres were broken or 54.3 percent. The remaining 230,157 acres, or 45.7 percent, were in pasture. The use to which the broken land was being put is as follows: 10,861 acres (3.9 percent) in wheat; 648 acres (.37 percent) in hay; 49,857 acres (18.0 percent) in row crop; 32,653 acres (11.8 percent) fallow; 42,385 (15.3 percent) idle; and 140,293 (50.7 percent) abandoned crop land. Approximately one third, or 77,945 acres, of the pasture land was within operating units. The remaining 153,112 acres were classified as open pasture outside of units. The county committee recommended that 149,989 acres of broken land in the area be returned to grass. This would leave approximately 25 percent of the land in cultivation and 75 percent in pasture. It was recommended that 34.4 percent be planted to wheat; 39.3 percent planted to row crop and 25.8 percent summer fallowed. This ratio is to be flexible depending on seasons.

AREA 2

Area 2 is located in the northwest corner of the county (See map) and comprises 134,595 acres. At the time of the survey 16,360 acres or 12.1 percent were plowed. The remaining 118,235 acres or 87.9 percent were in pasture. The use of cultivated land is as follows: 360 acres (2.2 percent) in wheat; 5,100 acres (31.2 percent) in row crop; 275 acres (1.7 percent) fallow; 3,175 acres (19.4 percent) idle, 7,450 acres (45.5 percent) abandoned crop land. Of the pasture land, 38 percent was within operating units and 62 percent was outside of units.

AREA 3

Area 3 is located south of the east central portion of the county. It comprises 33,600 acres. Of this amount, 19,310 acres (57.5 percent) is broken and 14,290 acres (42.5 percent) is in pasture. The cultivated land is used as follows: 4,080 acres (21.1 percent) in wheat; 4,090 acres (21.2 percent) in row crops; 1,980 acres (10.3 percent) idle; and 9,160 acres (47.4 percent) abandoned crop land. The county committee suggested that 8,222 acres of broken land be restored to grass. This would leave 25,378 acres in crop production. They recommended that 50 percent of this be used for growing of wheat, 25 percent for row crops, and 25 percent be left fallow.

AREA 4

Area 4 is located in the east central part of the county

Area 3 is located north of the center of the island. It contains 1,000,000 sq. ft. of land. The vegetation is mostly low-lying shrubs and grasses. The soil is sandy and well-drained. The area is currently used for grazing by cattle. The vegetation is mostly low-lying shrubs and grasses. The soil is sandy and well-drained. The area is currently used for grazing by cattle.

Area 4

Area 4 is located south of the center of the island. It contains 1,000,000 sq. ft. of land. The vegetation is mostly low-lying shrubs and grasses. The soil is sandy and well-drained. The area is currently used for grazing by cattle. The vegetation is mostly low-lying shrubs and grasses. The soil is sandy and well-drained. The area is currently used for grazing by cattle.

Area 5

Area 5 is located in the center of the island. It contains 1,000,000 sq. ft. of land. The vegetation is mostly low-lying shrubs and grasses. The soil is sandy and well-drained. The area is currently used for grazing by cattle. The vegetation is mostly low-lying shrubs and grasses. The soil is sandy and well-drained. The area is currently used for grazing by cattle.

(See map), and comprises 204,741 acres. At the time of the survey, 131,490 acres (64.2 percent) were plowed and 73,251 acres (35.8 percent) remained in pasture. The plowed land was used as follows: 8,025 acres (6.1 percent) in wheat; 53,423 acres (40.6 percent) in row crops; 8,951 acres (6.1 percent) fallow; 14,913 acres (10.7 percent) idle; and 47,978 acres (36.5 percent) abandoned crop land. Of the 73,251 acres of pasture land, 40,487 (55.3 percent) were within operating units, while 32,765 (44.7 percent) were outside of units. The committee recommended that not over 55 or 60 percent of the land be cultivated. This would increase the pasture land by 39,457 acres. They also suggested that most of the crop land be used for the growing of row crops, although some wheat was recommended in favorable years.

AREA 5

Area 5 is located in the west central and south central part of the county, and comprises 413,942 acres. (See map) It has 249,557 acres of plowed land (60.3 percent) and 164,385 acres (39.7 percent) of pasture.

The cultivated land is used as follows: 3,481 acres (1.4 percent) wheat; 125,814 acres (50.4 percent) row crops; 10,024 acres (4.0 percent) fallow; 15,602 acres (6.3 percent) idle; and 94,636 acres (37.9 percent) abandoned crop land. Of the pasture land, 94,143 acres (57.3 percent) is within operating unit and 70,242 acres (42.7 percent) is outside of operating unit. The

committee suggested that 146,072 acres be returned to grass. This would leave 103,485 acres, or about 25 percent of the total acres, in crop production. They recommended that this be utilized almost entirely for the production of row and forage crops.

AREA 6

This area is located in the southwest and extreme southern portion of the county and comprises 341,380 acres. It has 72,250 acres (21.1 percent) plowed and 369,139 acres (78.9 percent) in pasture. The plowed land is used as follows: 840 acres (1.2 percent) in wheat; 45,512 acres (63.9 percent) in row crops; 7,495 acres (10.4 percent) idle; and 18,493 acres (25.4 percent) abandoned crop land. Of the 269,139 acres of pasture, 66.4 percent or 178,808 acres are within operating units, while 33.6 percent or 90,322 acres are open. The committee recommended that 38,112 acres be returned to grass. This would leave 34,138 acres, or 10 percent of the total acres, for crop production. They suggested that this land be used for the growing of row crops. No. small grain was recommended.

TYPE OF FARM

The 1,045 operators contacted were classified as to type of farms. Four classifications used were: livestock, crop, general, and one operator who fell into none of these classes was left unclassified. (See table of definitions) Eighty-four were classified as livestock; 465 as crop; 495 as general; and one was unclassified.

1. The first group of people who are not yet citizens of the United States are the naturalized citizens. These are people who were born in another country but have become citizens of the United States. They are subject to the same laws as the native-born citizens.

1. 2000

1. *Pharmaceutical industry* – The pharmaceutical industry is a major source of funding for research in the field of aging. The industry has a vested interest in developing new drugs and treatments to address the needs of the aging population.

The 84 livestock operators controlled 172,418 acres, or 19.8 percent of all land within operating units. They owned 91,597 acres and rented 80,821 acres. The average size livestock unit was 2,053 acres.

The 465 crop operators controlled 327,410 acres, or 37.5 percent of all land within operating units. They owned 127,714 acres and rented 199,696 acres. The average size farm of this type was 705 acres.

The 495 general operators controlled 371,435 acres, or 47.4 percent of all the land in operating units. They owned 176,257 acres and rented 195,178 acres. The average size farm of this type was 751 acres.

The one operator who was unclassified controlled 1,420 acres of land, which he rented.

There were at the time of the survey 465 crop operators within Baca county. This classification, being 37.5 percent of all operators, is very high. It is advisable that the number of this type of farm be reduced as much as possible. It has been shown conclusively that over a period of years, the farmer who depends on dry land crop farming alone cannot survive in the Southern High Plains. The operators who have been able to maintain a better standard of living are those who have been using this land for livestock production and have planted only enough crop to secure forage for winter feed. Many of the crop farmers have been forced by the drouth to move on, but a period of wet years will likely increase this type of farming.

The 1911 census showed the population of the
county of 11,149, with an increase of 1,149
from the year 1901, 10,000. The average annual
rate was 1.04 per cent.

The 1921 census showed a population of 12,298, an increase
of 1,149 from the year 1911, 11,149. The average
annual rate was 1.04 per cent.

The 1931 census showed a population of 13,447, an increase
of 1,149 from the year 1921, 12,298. The average
annual rate was 1.04 per cent.

The 1941 census showed a population of 14,596, an increase
of 1,149 from the year 1931, 13,447. The average
annual rate was 1.04 per cent.

The 1951 census showed a population of 15,745, an increase
of 1,149 from the year 1941, 14,596. The average
annual rate was 1.04 per cent.

The 1961 census showed a population of 16,894, an increase
of 1,149 from the year 1951, 15,745. The average
annual rate was 1.04 per cent.

The 1971 census showed a population of 18,043, an increase
of 1,149 from the year 1961, 16,894. The average
annual rate was 1.04 per cent.

The 1981 census showed a population of 19,192, an increase
of 1,149 from the year 1971, 18,043. The average
annual rate was 1.04 per cent.

The 1991 census showed a population of 20,341, an increase
of 1,149 from the year 1981, 19,192. The average
annual rate was 1.04 per cent.

The 2001 census showed a population of 21,490, an increase
of 1,149 from the year 1991, 20,341. The average
annual rate was 1.04 per cent.

The 2011 census showed a population of 22,639, an increase
of 1,149 from the year 2001, 21,490. The average
annual rate was 1.04 per cent.

The 2021 census showed a population of 23,788, an increase
of 1,149 from the year 2011, 22,639. The average
annual rate was 1.04 per cent.

Let us take the analysis a step further to show the higher standard of living being maintained by the livestock and general operators contrasted with that of the cash crop farmer. The condition of occupied farmsteads offer some interesting criteria.

When the survey was made there were 958 occupied houses. Of this number 12.8 percent were classified as being in a good state of repairs, 30.9 percent were in fair condition, and 56.3 percent were in poor repair. (See tables 9, 17, and 20) Livestock operators have 47.4 percent of their houses classified as poor, general farmers have 56.3 percent of their houses in this classification, while in the case of the crop farmer the figure is 58.2 percent. This indicates that livestock operators are able to maintain better improvements than either general farmers or crop farmers. General farmers have better improvements than crop farmers. In a further study, some interesting facts may be brought out in Area 1 and 4, the wheat sections of the county. In Area 1, the livestock operators have 33.3 percent of their houses classified as good; 55.6 percent as fair; and only 11.1 percent as poor. The same figures for the general farmer are, 22.4 percent good; 38.8 percent fair; and 38.8 percent poor. In the case of the crop farmer the percentage of poor houses is much greater than in either of the above cases. The figures are: good, 19.6 percent; fair, 29.4 percent; and poor, 51.0 percent. In Area 4 much the same situation exists (See table 9) although there is not much distinction between the general and crop farmer.

TENURE

In analyzing tenure, we find that 1,045 operators are owners; 400 are tenants; and 298 both own and rent land. This places 38.3 percent of the total number of operators in the position of tenants.

Since this rate is high, the question of tenancy in Baca county is extremely important from at least two points of view. In the first place, tenancy has produced conditions that can definitely be identified with certain undesirable land use practices. Secondly, tenancy always produces certain social and economic obligations that cannot be ignored.

As far as land use is concerned, tenancy under present conditions is generally harmful to best land use practices. This can be directly traced in a number of cases to the relationship between tenant and landlord as signified by the type of leases that prevail. These leases for the most part run for short terms. The majority of them run for only one year. A few are longer, but these are exceptions. When a tenant has a short term lease he cannot reasonably be expected to take the same care of the land that he would if assured the use of it for a longer period.

If a crop farmer, he feels that it is necessary to secure as high a return from the land as possible from cash crops. Since he has no assurance that he will have control of the same land the following year, no thought is generally given to future planning or improvement of this land. He is concerned only in the immediate return. This encourages a speculative type of farming that does not lend itself to agricultural stability. Especially is this true

when the land is held primarily for speculative purposes by non-resident owners. Often in these cases the landlord at the signing of the lease specifies certain types and amounts of crops to be planted.

In the case of grass land, much the same situation exists. It is impractical to hold grass in reserve, as the lease may expire before it is used. If the lease is not renewed, the grass is lost to the tenant.

A program of long-time leases would do much to correct this undesirable condition. However, in such a program, some provision must be made for the protection of the landlord. Many of them state that they would gladly give long-time leases, but the fear of securing poor tenants, who would be hard to evict, makes them hesitate. This is a joint problem of both tenant and landowner and can be solved only by the closest cooperation and with concessions from both sides.

Social aspects of the situation are also important. Tenants generally move about a great deal. This unstable element of population does not enter into and adds little that is constructive to community life. On the other hand, they demand many services from the community. Schools, roads, and churches must be provided for them. The uncertainty of their numbers makes this a difficult proposition. It keeps taxes and administrative costs high. Little in the way of community or agricultural stability can be achieved with this continual shifting of a considerable portion of the farm population.

SIZE OF FARM

Most sections of the Southern High Plains region are handicapped by a relatively high number of small farms. Baca county is no exception to the rule. This directly reflects the old homestead policy of the government. Many of these farms are too small to provide the operators with an adequate income even in good years. When a series of poor years occur in succession the operators of small units are forced in many cases to move.

In a discussion regarding the size of farms, the question always arises as to what constitutes a proper size unit in the Southern High Plains region. The answer can be only relative. Such things as land use, soil types, accessibility to water, and individual initiative must be considered. Careful studies in many parts of this region, and discussions with local farmers concerning the questions indicate that the general farmer requires about two sections to provide an adequate income. The livestock operator needs a minimum of three sections.

A comparison between the size of the recommended units and conditions as they actually exist furnish some interesting contrasts. Of the 1,045 farms, 682 (65.5 percent) are 720 acres or less. Only 70 farms (6.7 percent) are larger than three sections. (See table 18 for complete figures) These figures clearly indicate that many of the farms in Baca county are too small to return an adequate living over a period of years.

One possible solution is a cooperative movement on the part

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The...
 If a...

of the farmers to enlarge their units, by obtaining long-term leases on additional pasture land. This will require considerable work in the nature of an educational program for the individuals interested. It would be necessary to convince the landowners that long-term leases would be to their advantage. This takes considerable work, but can be done as demonstrated by the success in Cheyenne county, Colorado.

Another method that might be used is the federal purchase of land. A properly conducted purchase program could do much to eliminate improper land use and uneconomic size units. This could be done by buying tracts that are submarginal or not primarily suited to crop production. Many of these tracts that are unsuitable for crop production are also too small for grazing units. By buying them the government can include them in a large grazing area.

To insure proper land use in the future, it will be necessary to eliminate purely speculative use. Such control must be had that grazing land cannot be broken up and put to crop production when favorable climatic and market conditions recur. This could be achieved by placing the administration of the purchase area in some responsible local organization. This organization would have the power to enact and enforce such regulations as would be in harmony with good land use practices.

YEARS ON FARM

An excellent yardstick to use in measuring the stability of a community is the number of years each operator has occupied his

present farm.

When a community is found in which many of the individuals move about from year to year, it generally indicates improper land use and a speculative type of farming. People come to these areas with the hope of getting rich overnight. Few of them plan to make their homes permanently in the area.

Throughout the Southern High Plains region the percentage of people who have been on their farms only a short time is high. Especially is this true in the counties that are used for speculative wheat production.

A study of the figures for Baca county shows that 291 operators, or 27.8 percent of the total, have been on their present farms less than three years.

This unstable element in the population creates at least three types of problems: public and administrative costs of county government are raised, social obligations are increased, and long-time planning to achieve agricultural stability hindered.

CONDITION, OCCUPANCY AND FACILITIES OF FARMSTEADS

Occupied Houses

At the time of the survey, there were 946 occupied houses. In classifying these as to condition; it was found that 121 (12.8 percent) were in good condition; 287 (31.3 percent) were in fair condition; and 538 (56.9 percent) were in poor condition.

There is a number of factors which may be considered in the study of the problem of the origin of the universe. The first of these is the question of the origin of the matter which is now distributed throughout the universe. The second is the question of the origin of the energy which is now distributed throughout the universe. The third is the question of the origin of the laws of physics which now govern the universe.

Throughout the history of the universe, the laws of physics have been constant. This is one of the most important facts of the universe. It is the only fact which is true of the entire universe. It is the only fact which is true of the entire universe. It is the only fact which is true of the entire universe.

A study of the history of the universe for the last few hundred years has shown that the laws of physics have been constant. This is one of the most important facts of the universe. It is the only fact which is true of the entire universe. It is the only fact which is true of the entire universe. It is the only fact which is true of the entire universe.

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THE HISTORY OF THE UNIVERSE

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At the time of the origin of the universe, the laws of physics were constant. This is one of the most important facts of the universe. It is the only fact which is true of the entire universe. It is the only fact which is true of the entire universe. It is the only fact which is true of the entire universe.

Facilities

In the inventory of facilities such items as telephones, radios, electricity in the home, and piped water in the dwellings were considered. Of the 946 houses, 688 (71.8 percent) have none of these conveniences; 2.3 percent have electricity; 9.2 percent have piped water; 5.6 percent have telephones; and 21.5 percent have radios.

Fifty-six and nine tenths percent of all rural houses were in a poor state of repair and 71.8 percent had no modern conveniences. This indicates that present land use practices, in many cases, must be wrong. Income derived from operations is not sufficient to provide comfortable dwellings. If a stabilized agricultural economy is to be achieved, land use practices must be adjusted to harmonize with actual conditions.

Unoccupied Houses

A record was also made of all abandoned houses in the county, there were 782 of these. A further analysis shows that 368 were in ruins, indicating a long period of abandonment; and 414 were not in ruins and had only recently been abandoned.

The large number of abandoned houses indicate that at one time the rural population of Baca county was much greater than at present. Conditions of drouth and depression have forced many to leave the county recently. The fact that 414 houses were, at the time of the survey, still in a fair state of repair shows that much of the exodus had been quite recent. These people are

gone, forced by various conditions of drouth and other circumstances, to seek new homes in new locations. They can be forgotten as far as present conditions are concerned, but what of the future? If several wet years occur, and news is broadcast that Baca county is producing crops again, may not many of them and others return? If nothing is done to discourage the idea, this is likely to happen. Speculators will rush in and plow more land and crops will be planted with little thought or care for correct land use.

SUBSIDIES

The amount of federal money that has been spent in Baca county during the last few years, 1933 - 1936, amounts to \$5,132,559. Of this amount, \$4,152,582 has been spent as emergency expenditures and \$979,977 additional has been loaned upon good security. On a per capita basis, this amounts to \$393 for each person in the county. This is based on the 1930 census figures which show 10,570 people in the county. The number of people in the county at present time is considerably under this figure. This will place the per capita figure much higher.

When considering expenditures of the federal government in this county during the 1933 - 1936 period the question arises as to how much good this vast sum of money has done.

From a social point of view the answer is obvious. The money has done a tremendous amount of good. The money spent has relieved and prevented a great deal of human suffering.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

From a land use point of view the answer is not so encouraging. Much of the money was intended for emergency measures. A crisis existed and it was necessary to get money to the stricken area as soon as possible. Little thought could be given to a long-time program for agricultural stability. For this reason some of the programs were hurriedly written and in some cases did not incorporate good land use practices. In complying with some of the programs, farmers were actually forced to follow land use practices not in harmony with prevailing conditions.

On the other hand, some farmers took advantage of a paternalistic government and used the programs as a means to an end. Compliance, although carried out, was in a haphazard fashion and little thought was given to anything except the ~~amount~~ of the check to be received.

Agricultural programs in the future, to be successful, must have two things. First, the government must develop a sound program that includes proven practices for the area. Second, the farmers must cooperate and enter into the spirit of such a program. Not only should they comply with the program in order to receive their payments, but should carry their planning much farther. They should stop "farming the government" and develop practices that will lead to a stable income year in and year out.

APPENDIXES

APPENDIX A

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LAND USE DATA

LAND OUTSIDE AND INSIDE

OPERATING UNITS

Table 1

Use of Land

Source: Land Use Survey, 1936		
: Use	Acres	Percent :
Within Operating Units		
Crop	312,091	19.1
Fallow	51,003	3.1
Idle and Miscellaneous	84,656	5.2
Pasture	449,358	27.5
Total	897,608	54.9
Outside Operating Units or "Open"		
Crop Abandoned	317,919	19.4
Open Pasture	419,520	25.7
Miscellaneous Open		
Total	737,509	45.1
Total Acres in County	1,635,117	100.0

Table 2

Use of Plowed Land

Source: Land Use Survey, 1936		
: Use	Acres	Percent :
Small Grain	27,647	3.6
Hay	648	-
Row Crop	283,796	37.2
Fallow	51,003	6.7
Idle	84,656	11.0
Crop Abandoned	317,919	41.5
Total Cultivated	765,669	100.0

[illegible]

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthal and Whistler (1973). The total chlorophyll content was determined by the method of Arar and Johnson (1977). The carotenoid content was determined by the method of Lichtenthal and Whistler (1973). The total carotenoid content was determined by the method of Arar and Johnson (1977). The total protein content was determined by the method of Lowry et al. (1951). The total lipid content was determined by the method of Bligh and Dyer (1959). The total carbohydrate content was determined by the method of Dubois and Gilles (1950). The total nucleic acid content was determined by the method of Burton (1956). The total ash content was determined by the method of AOAC (1970). The total moisture content was determined by the method of AOAC (1970). The total dry matter content was determined by the method of AOAC (1970). The total organic acid content was determined by the method of AOAC (1970). The total alkaloid content was determined by the method of AOAC (1970). The total saponin content was determined by the method of AOAC (1970). The total tannin content was determined by the method of AOAC (1970). The total flavonoid content was determined by the method of AOAC (1970). The total phenol content was determined by the method of AOAC (1970). The total terpenoid content was determined by the method of AOAC (1970). The total steroid content was determined by the method of AOAC (1970). The total glycoside content was determined by the method of AOAC (1970). The total alkaloid content was determined by the method of AOAC (1970). The total saponin content was determined by the method of AOAC (1970). The total tannin content was determined by the method of AOAC (1970). The total flavonoid content was determined by the method of AOAC (1970). The total phenol content was determined by the method of AOAC (1970). The total terpenoid content was determined by the method of AOAC (1970). The total steroid content was determined by the method of AOAC (1970). The total glycoside content was determined by the method of AOAC (1970).

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

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At 10:10 to 10:15

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Table 3

Use of Land
By Acres and Percent

Use of Land		Source: Land Use Survey, 1936									
		: Area	: Area	: Area	: Area	: Area	: Area	: Area	: Area	: Area	: County
		: 1	: 2	: 3	: 4	: 5	: 6	:	:	:	:
Cultivated Land											
Wheat	No.	10,866	360	4,080	8,025	3,481	840			27,653	
Percent	No.	2.1	.3	12.1	3.9		.2			1.7	
Hay	No.	648								648	
Percent	No.	.1									
Row Crop	No.	49,857	5,100	4,090	53,423	125,814	45,512			283,796	
Percent	No.	9.8	3.8	12.2	23.1		13.4			17.4	
Fallow	No.	32,653	64,275		8,951	10,024				51,003	
Percent	No.	6.4	.2		3.9					3.1	
Idle	No.	42,385	3,175	1,980	14,013	15,602	7,495			84,650	
Percent	No.	8.4	2.4	5.9	6.8		2.2			5.2	
*Abandoned	No.	140,293	7,450	9,160	47,978	94,636	13,403			317,919	
Percent	No.	27.7	5.5	27.2	23.4		5.4			19.4	
Total	No.	276,702	16,360	19,310	131,490	249,557	72,250			765,669	
Percent	No.	54.5	12.2	57.5	64.1		21.2			46.8	
Native Pasture											
Within Operating Unit	No.	77,045	53,925	5,450	40,487	94,143	178,808			449,858	
Percent	No.	15.3	40.0	16.2	19.3		52.4			27.5	
*Outside Operating Unit (Open) Percent	No.	153,112	64,310	8,840	32,764	70,242	90,322			419,590	
Total	No.	230,157	118,235	14,290	73,251	164,385	269,130			869,448	
Percent	No.	45.5	87.8	42.5	35.9		78.8			53.2	
Grant Total	No.	506,859	134,595	33,600	204,741	413,942	341,380			1,635,117	
Percent	No.	100.0	100.0	100.0	100.0		100.0			100.0	

*Abandoned crop land and open pasture land was at the time of this survey not within an operating unit.

1. The first part of the report is a general statement of the work done during the year. It is a summary of the work done by the various departments and is intended to give a general idea of the progress of the work.

GENERAL STATEMENT OF WORK DONE DURING THE YEAR									
DEPARTMENT	NO. OF MEN	NO. OF HORSES	NO. OF CATTLE	NO. OF SHEEP	NO. OF PIGS	NO. OF BIRDS	NO. OF BEES	NO. OF FISH	NO. OF INSECTS
1. General	100	100	100	100	100	100	100	100	100
2. Agriculture	100	100	100	100	100	100	100	100	100
3. Forestry	100	100	100	100	100	100	100	100	100
4. Fisheries	100	100	100	100	100	100	100	100	100
5. Hunting	100	100	100	100	100	100	100	100	100
6. Fishing	100	100	100	100	100	100	100	100	100
7. Gardening	100	100	100	100	100	100	100	100	100
8. Planting	100	100	100	100	100	100	100	100	100
9. Harvesting	100	100	100	100	100	100	100	100	100
10. Processing	100	100	100	100	100	100	100	100	100
11. Marketing	100	100	100	100	100	100	100	100	100
12. Distribution	100	100	100	100	100	100	100	100	100
13. Consumption	100	100	100	100	100	100	100	100	100
14. Waste	100	100	100	100	100	100	100	100	100
15. Recycling	100	100	100	100	100	100	100	100	100
16. Disposal	100	100	100	100	100	100	100	100	100
17. Storage	100	100	100	100	100	100	100	100	100
18. Transportation	100	100	100	100	100	100	100	100	100
19. Communication	100	100	100	100	100	100	100	100	100
20. Administration	100	100	100	100	100	100	100	100	100

The second part of the report is a detailed statement of the work done during the year. It is a summary of the work done by the various departments and is intended to give a general idea of the progress of the work.

LAND USE BY TYPE OF FARM

Table 4

Comparison of Number of Operators, Acres Owned, Acres Rented,
and Total Acres Farmed
By Type of Farm

		Source: Land Use Survey, 1936									
County	Type of Farm	N u m b e r			P e r c e n t						
		Operators	Acres Owned	Acres Rented	Acres Total	Operators	Acres Owned	Acres Rented	Acres Total	Operators	Acres Total
County	Livestock	84	91,597	80,821	172,418	8.0	10.5	9.3	19.8		
	Crop	465	127,714	199,696	327,410	44.5	14.6	22.9	37.5		
	General	495	176,257	195,178	371,435	47.4	20.2	22.3	42.5		
	Unclassified	1	--	1,420	1,420	.1	--	.2	.2		
	Total	1,045	395,568	477,115	872,683	100.0	45.3	54.7	100.0		
Area 1	Livestock	12	7,200	8,920	16,120	5.4	3.6	4.4	8.0		
	Crop	121	36,093	80,211	116,304	54.3	17.9	39.7	57.6		
	General	90	34,287	35,320	69,607	40.3	16.9	17.5	34.4		
	Unclassified	--	--	--	--	--	--	--	--		
	Total	223	77,580	124,451	202,031	100.0	38.4	61.6	100.0		
Area 2	Livestock	12	10,840	18,680	29,520	36.4	17.4	29.9	47.3		
	Crop	5	3,640	3,760	7,400	15.2	5.8	6.0	11.8		
	General	16	9,360	16,160	25,520	48.4	15.0	25.9	40.9		
	Unclassified	--	--	--	--	--	--	--	--		
	Total	33	23,840	38,600	62,440	100.0	38.2	61.8	100.0		

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[illegible]

Figure 1 consists of 15 small, square images arranged in a 3x5 grid. Each image shows a different stage or view of a bird's nest. The nests are constructed from twigs, sticks, and other natural materials. Some images show the nest from a top-down perspective, while others show it from the side or from a different angle. The nests are located in various environments, including on the ground, in a hole, and in a nest box.

[illegible]

Figure 6. The effect of the concentration of the inhibitor on the rate of polymerization of styrene initiated by AIBN at 70°C. [Styrene] = 1.0 mol/L; [AIBN] = 0.001 mol/L; [Inhibitor] = 0.0001–0.001 mol/L. (●) DCP; (○) BPO; (□) KPS; (△) K₂S₂O₈.

[illegible]

Figure 1 illustrates the sequence of a toothbrush stroke on a tooth. The sequence is shown in a 3x3 grid of line drawings, numbered 1 through 9. The top row shows the initial contact and the start of the stroke. The middle row shows the stroke moving along the tooth surface. The bottom row shows the stroke reaching the end and the toothbrush being lifted.

Figure 1 shows a series of nine line drawings of a person, arranged in a 3x3 grid. The drawings are labeled with the age of the child who drew them: 3, 4, 5, 6, and 7. The drawings show a progression from a simple stick figure to a more detailed figure with a head, torso, and limbs. The drawings are arranged in three rows and three columns. The top row shows a simple stick figure with a circle for a head and a vertical line for a body. The middle row shows a more developed figure with a head, torso, and limbs. The bottom row shows a figure with a head, torso, and limbs, and a small circle for a head. The drawings are labeled with '3', '4', '5', '6', and '7' in the bottom right corner of each cell, indicating the age of the child who drew them.

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	~10	~20	~70
2	~15	~25	~60
3	~20	~30	~50
4	~25	~35	~40
5	~30	~40	~30
6	~35	~45	~20
7	~40	~50	~10
8	~45	~55	~5
9	~50	~60	~2
10	~55	~65	~1

(continued)

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

the 1990s, the number of people in the world who are illiterate has increased from 1.2 billion to 1.5 billion. The number of illiterate people in the world is expected to reach 1.7 billion by the year 2015. The number of illiterate people in the world is expected to reach 1.7 billion by the year 2015.

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[illegible]

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1990: 135-136).

Figure 1 consists of eight micrographs arranged in a 2x4 grid. The columns are labeled 'Control', '100% RH', '100% RH + 100% RH', and '100% RH + 100% RH + 100% RH'. The rows are labeled 'Control' and '100% RH'. The images show the growth of *Aspergillus fumigatus* on wheat grain. The 'Control' row shows minimal growth, while the '100% RH' row shows significant growth. The '100% RH + 100% RH' and '100% RH + 100% RH + 100% RH' rows show even more extensive growth, with the latter showing a dense, dark mold covering the grain.

[illegible]

Journal of Management Studies, 19(1), 67-80.

Table 4
(Continued)

Type of Farm	N u m b e r				P e r c e n t			
	Operators	Acres : Owned	Acres : Rented	Acres : Total	Operators	Acres : Owned	Acres : Rented	Acres : Total
Area 3								
Livestock	--	--	--	--	--	--	--	--
Crop	12	6,320	3,440	9,760	70.6	44.4	24.2	68.5
General	5	800	3,680	4,480	29.4	5.6	25.8	31.5
Unclassified	--	--	--	--	--	--	--	--
Total	17	7,120	7,120	14,240	100.0	50.0	50.0	100.0
Area 4								
Livestock	5	7,890	2,400	10,290	2.7	6.2	1.9	8.1
Crop	90	29,731	30,540	60,271	49.5	23.3	23.9	47.2
General	87	27,026	30,124	57,150	47.8	21.1	23.6	44.7
Unclassified	-	--	--	--	--	--	--	--
Total	182	64,647	63,064	127,711	100.0	50.6	49.4	100.0
Area 5								
Livestock	6	4,440	1,920	6,360	1.6	1.7	.8	2.5
Crop	161	37,452	59,306	96,758	42.9	14.8	23.6	38.4
General	208	71,467	77,269	148,736	55.5	28.4	30.7	59.1
Unclassified	--	--	--	--	--	--	--	--
Total	375	113,359	138,495	251,854	100.0	44.9	55.1	100.0
Area 6								
Livestock	49	61,227	48,901	110,128	22.8	28.6	22.8	51.4
Crop	76	14,478	22,439	36,917	35.3	6.7	10.5	17.2
General	89	33,317	32,625	65,942	41.4	15.5	15.2	30.7
Unclassified	1	--	1,420	1,420	.5	--	.7	.7
Total	215	109,022	105,385	214,407	100.0	50.8	49.2	100.0

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Table 5

Comparison of Number of Operators, Acres Plowed, Acres of Native
Pasture, Total Acres Farmed
By Type of Farm

Source: Land Use Survey, 1936

		N u m b e r			P e r c e n t			
Type of Farm	Operators	Acres : Plowed	Acres : N. Pasture	Acres : Total	Operators :	Acres : Plowed	Acres : N. Pasture	Acres : Total
County								
Livestock	84	25,185	147,233	172,418	8.0	2.9	16.9	19.8
Crop	465	232,957	94,453	327,410	44.5	26.7	10.8	37.5
General	495	190,295	181,140	371,435	47.4	21.8	20.7	42.5
Unclassified	1	65	1,355	1,420	.1	--	.2	.2
Total	1,045	448,502	424,181	872,683	100.0	51.4	48.6	100.0
Area 1								
Livestock	12	9,330	6,790	16,120	5.4	4.6	3.4	8.0
Crop	121	91,866	24,438	116,304	54.3	45.5	12.1	57.6
General	90	38,409	31,198	69,607	40.3	19.0	15.4	34.4
Unclassified	--	--	--	--	--	--	--	--
Total	223	139,605	62,426	202,031	100.0	69.1	30.9	100.0
Area 2								
Livestock	12	2,615	26,905	29,520	36.4	4.2	43.1	47.3
Crop	5	2,200	5,200	7,400	15.1	3.5	8.3	11.8
General	16	6,255	19,265	25,520	48.5	10.0	30.9	40.9
Unclassified	--	--	--	--	--	--	--	--
Total	33	11,070	51,370	62,440	100.0	17.7	82.3	100.0

Table 5
(Continued)

		N u m b e r				P e r c e n t			
Type of Farm	Operators	Acres : Plowed	Acres : N. Pasture	Acres : Total	Operator's	Acres : Plowed	Acres : N. Pasture	Acres : Total	
Area 3									
Livestock	--	--	--	--	--	--	--	--	
Crop	12	7,030	2,730	9,760	70.6	49.4	19.2	68.6	
General	5	1,610	2,870	4,480	29.4	11.3	20.1	31.4	
Unclassified	--	--	--	--	--	--	--	--	
Total	17	8,640	5,600	14,240	100.0	60.7	49.3	100.0	
Area 4									
Livestock	5	1,850	8,440	10,290	2.7	1.4	6.6	8.0	
Crop	90	43,679	16,592	60,271	49.5	34.2	13.0	47.2	
General	87	33,740	23,410	57,150	47.8	26.5	18.3	44.8	
Unclassified	--	--	--	--	--	--	--	--	
Total	182	79,269	48,442	127,711	100.0	62.1	37.9	100.0	
Area 5									
Livestock	6	1,906	4,454	6,360	1.6	.8	1.7	2.5	
Crop	161	68,756	28,002	96,758	42.9	27.3	11.1	38.4	
General	208	85,141	63,595	148,736	55.5	33.8	25.3	59.1	
Unclassified	--	--	--	--	--	--	--	--	
Total	375	155,803	96,051	251,854	100.0	61.9	38.1	100.0	
Area 6									
Livestock	49	9,484	100,644	110,128	22.8	4.4	46.9	51.3	
Crop	76	19,426	17,491	36,917	35.3	9.1	8.2	17.3	
General	89	25,140	40,802	65,942	41.4	11.7	19.0	30.7	
Unclassified	1	65	1,355	1,420	.5	--	.7	.7	
Total	215	54,115	160,292	214,407	100.0	25.2	74.8	100.0	

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

[illegible]

Figure 6

[illegible][illegible]

Journal of Management Education 30(6)

[illegible]

(continued)

[illegible]

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	~10	~20	~70
2	~15	~25	~60
3	~20	~30	~50
4	~25	~35	~40
5	~30	~40	~30
6	~35	~45	~20
7	~40	~50	~10
8	~45	~55	~5
9	~50	~60	~2
10	~55	~65	~1

2000

[illegible][illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were cultured in the YEA medium for 24 h and then adjusted to the concentration of 1×10^8 cells/ml. The *Agrobacterium* strains were then cultured in the YEA medium with the concentration of 10, 100, 1000, 10000, 100000, and 1000000 cells/ml. The transformation efficiency was determined by the number of transformants per 100 cells. The results are shown in Table 1.

[illegible][illegible]

Figure 1 consists of 16 small plots arranged in a 4x4 grid. Each plot shows the spatial distribution of the number of eggs per plant. The plots are labeled with numbers 1 through 16. The top row (plots 1-4) shows a relatively uniform distribution of eggs. The second row (plots 5-8) shows a more clustered distribution. The third row (plots 9-12) shows a highly clustered distribution with many empty plants. The bottom row (plots 13-16) shows a very sparse distribution with only a few eggs.

1. *Phragmites australis* (Cav.) Trin. ex Steud.
 2. *Spartina patens* (Muhl.) B. & P.
 3. *Scirpus americanus* (L.) Pers.
 4. *Distichlis spicata* (L.) Nees
 5. *Eleocharis acicularis* (L.) Rostk Schmidt
 6. *Eleocharis obtusa* (L.) Nees
 7. *Eleocharis tenuis* (L.) Rostk Schmidt
 8. *Eleocharis palustris* (L.) Rostk Schmidt
 9. *Eleocharis acicularis* (L.) Rostk Schmidt
 10. *Eleocharis obtusa* (L.) Nees
 11. *Eleocharis tenuis* (L.) Rostk Schmidt
 12. *Eleocharis palustris* (L.) Rostk Schmidt
 13. *Eleocharis acicularis* (L.) Rostk Schmidt
 14. *Eleocharis obtusa* (L.) Nees
 15. *Eleocharis tenuis* (L.) Rostk Schmidt
 16. *Eleocharis palustris* (L.) Rostk Schmidt
 17. *Eleocharis acicularis* (L.) Rostk Schmidt
 18. *Eleocharis obtusa* (L.) Nees
 19. *Eleocharis tenuis* (L.) Rostk Schmidt
 20. *Eleocharis palustris* (L.) Rostk Schmidt
 21. *Eleocharis acicularis* (L.) Rostk Schmidt
 22. *Eleocharis obtusa* (L.) Nees
 23. *Eleocharis tenuis* (L.) Rostk Schmidt
 24. *Eleocharis palustris* (L.) Rostk Schmidt
 25. *Eleocharis acicularis* (L.) Rostk Schmidt
 26. *Eleocharis obtusa* (L.) Nees
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 97. *Eleocharis acicularis* (L.) Rostk Schmidt
 98. *Eleocharis obtusa* (L.) Nees
 99. *Eleocharis tenuis* (L.) Rostk Schmidt
 100. *Eleocharis palustris* (L.) Rostk Schmidt

[illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained after plating on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

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Abstract

1. *Pharmaceuticals*
 2. *Medical Devices*
 3. *Biotechnology*
 4. *Healthcare Services*
 5. *Medical Research*
 6. *Healthcare Financing*
 7. *Medical Education*
 8. *Healthcare Policy*
 9. *Medical Ethics*
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Table 6

Acreages of Various Uses of Plowed Land
By Type of Farm

Source: Land Use Survey, 1936

Type of farm	Number							Idle	Total
	Operators	Small Grain	Row Crop	Hay	Fallow				
County									
Livestock	84	490	15,920	355	50		8,370	25,185	
Crop	465	21,316	128,399	208	36,242		46,792	232,957	
General	495	6,716	142,589	400	12,681		27,909	190,295	
Unclassified	1	--	--	-	--		65	65	
Total	1,045	28,522	286,908	963	48,973		83,136	448,502	
Area 1									
Livestock	12	--	4,500	-	50		4,780	9,330	
Crop	121	8,196	29,217	208	24,258		29,987	91,866	
General	90	2,290	17,614	400	5,980		12,135	38,409	
Unclassified	--	--	--	--	--		--	--	
Total	223	10,486	51,331	608	30,278		46,902	139,605	
Area 2									
Livestock	12	--	1,455	--	--		1,160	2,615	
Crop	5	--	760	--	640		800	2,200	
General	16	40	4,330	--	320		1,565	6,255	
Unclassified	--	--	--	--	--		--	--	
Total	33	40	6,545	--	960		3,525	11,070	

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Table 6
(Continued)

		N u m b e r								
Type of Farm	Operators	Small Grain	Row Crop	Hay	Fallow	Idle	Total			
Area 3										
Livestock	--	--	--	--	--	--	--	--	--	
Crop	12	4,100	2,130	--	--	800	7,030			
General	5	--	1,410	--	--	200	1,610			
Unclassified	--	--	--	--	--	--	--			
Total	17	4,100	3,540	--	--	1,000	8,640			
Area 4										
Livestock	5	490	1,360	--	--	--	1,850			
Crop	90	4,635	26,534	--	4,665	7,845	43,679			
General	87	2,580	25,579	--	1,936	3,645	33,740			
Unclassified	--	--	--	--	--	--	--			
Total	182	7,705	53,473	--	6,601	11,490	79,269			
Area 5										
Livestock	6	--	1,746	--	--	160	1,906			
Crop	161	3,785	53,057	--	6,379	5,535	68,756			
General	208	1,106	72,181	--	4,455	7,399	85,141			
Unclassified	--	--	--	--	--	--	--			
Total	375	4,891	126,984	--	10,834	13,094	155,803			
Area 6										
Livestock	49	--	6,859	355	--	2,270	9,484			
Crop	76	600	16,701	--	390	1,825	19,426			
General	89	700	21,475	--	--	2,965	25,140			
Unclassified	1	--	--	--	--	65	65			
Total	215	1,300	45,035	355	300	7,125	54,115			

Table 6
(Continued)

Acreage of Various Uses of Plowed Land
By Type of Farm

		Source: Land Use Survey, 1936									
Type of Farm	Operators	P e r c e n t									
		Small Grain	Row Crop	Hay	Fallow	Idle	Total				
County											
Livestock	8.0	.1	3.6	.1	-	1.9	5.7				
Crop	44.5	4.8	28.6	.0	8.1	10.4	51.9				
General	47.4	1.5	31.8	.1	2.8	6.2	42.4				
Unclassified	.1	-	-	-	-	-	-				
Total	100.0	6.4	64.0	.2	10.9	18.5	100.0				
Area 1											
Livestock	5.4	-	3.3	-	-	3.4	6.7				
Crop	54.3	5.9	20.9	.1	17.4	21.5	65.8				
General	40.3	1.6	12.6	.3	4.3	8.7	27.5				
Unclassified	-	-	-	-	-	-	-				
Total	100.0	7.5	36.8	.4	21.7	33.6	100.0				
Area 2											
Livestock	36.4	-	13.1	-	-	10.5	33.6				
Crop	15.2	-	6.9	-	5.8	7.2	19.9				
General	48.4	.4	39.1	-	2.9	14.1	56.5				
Unclassified	-	-	-	-	-	-	-				
Total	100.0	.4	59.1	-	8.7	31.8	100.0				

Table 6
(Continued)

		P e r c e n t						
Type of Farm	Operators	Small Grain	Row Crop	Hay	Fallow	Idle	Total	
Area 3								
Livestock	-	-	-	-	-	-	-	
Crop	70.6	47.5	24.7	.0	-	9.2	81.4	
General	29.4	-	16.3	-	-	2.3	18.6	
Unclassified	-	-	-	-	-	-	-	
Total	100.0	47.5	41.0	-	-	11.5	100.0	
Area 4								
Livestock	2.7	.6	1.7	-	-	-	2.3	
Crop	49.5	5.8	33.5	-	5.9	9.9	55.1	
General	47.8	3.3	32.3	-	2.4	4.6	42.6	
Unclassified	-	-	-	-	-	-	-	
Total	100.0	9.7	67.5	-	8.3	14.5	100.0	
Area 5								
Livestock	1.6	-	1.1	-	-	.1	1.2	
Crop	42.9	2.4	34.1	-	4.1	3.6	44.2	
General	55.5	.7	46.3	-	2.9	4.7	54.6	
Unclassified	-	-	-	-	-	-	-	
Total	100.0	3.1	81.5	-	7.0	8.4	100.0	
Area 6								
Livestock	22.8	-	12.6	.7	-	4.2	17.5	
Crop	35.3	1.1	30.9	-	.6	3.4	36.0	
General	41.4	1.3	39.6	-	-	5.5	46.4	
Unclassified	.5	-	-	-	-	.1	.1	
Total	100.0	2.4	83.1	.7	.6	13.2	100.0	

[illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies on the selective medium. The results are the mean of three independent experiments. Error bars represent the standard deviation.

(continued)

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100

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1 2 3 4 5

$\sigma = 0.05$

$\sigma = 0.01$

$\sigma = 0.001$

$\sigma = 0.0001$

$\sigma = 0.00001$

200 100 50 0 0 50 100 200

[illegible][illegible]

1. *Chlorophyll a* (Chl a) and *Chlorophyll b* (Chl b) are the primary photosynthetic pigments in green plants. They are responsible for capturing light energy and converting it into chemical energy through the process of photosynthesis. Chl a is the most abundant pigment, while Chl b is present in smaller amounts. Both pigments absorb light most efficiently in the blue and red regions of the visible spectrum.

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2000

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[illegible]

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	~10	~20	~70
2	~15	~25	~60
3	~20	~30	~50
4	~25	~35	~40
5	~30	~40	~30
6	~35	~45	~20
7	~40	~50	~10
8	~45	~55	~5
9	~50	~60	~2
10	~55	~65	~1

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Table 7

Average Acreage of Various Uses of Plowed Land
By Type of Farm

County	Type of Farm	Average Acreage									
		Operators:	Small :	Row :	Hay :	Fallow :	Idle :	Total			
		Grain	Crop								
County											
Livestock		84	58	190	4	-	100	300			
Crop		465	46	276	-	78	101	501			
General		495	14	288	1	26	56	385			
Unclassified		1	-	-	-	-	65	65			
Total		1,045	27	275	1	47	80	430			
Area 1											
Livestock		12	-	375	-	4	398	777			
Crop		121	68	241	2	200	248	759			
General		90	25	196	4	66	135	427			
Unclassified		-	-	-	-	-	-	-			
Total		223	47	230	3	136	210	626			
Area 2											
Livestock		12	-	121	-	-	97	218			
Crop		5	-	152	-	128	160	440			
General		16	2	271	-	20	98	391			
Unclassified		-	-	-	-	-	-	-			
Total		33	1	198	-	29	107	335			

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Table 7
(Continued)

Type of Farm	Average Acreage									
	Operators:	Small	Row	Crop	Hay	Fallow	Idle	Total		
<u>Area 3</u>										
Livestock	-	-	-	-	-	-	-	-	-	-
Crop	12	342	178	178	-	-	67	587		
General	5	-	282	282	-	-	40	322		
Unclassified	-	-	-	-	-	-	-	-		
Total	17	241	208	208	-	-	59	508		
<u>Area 4</u>										
Livestock	5	98	272	272	-	-	-	370		
Crop	90	52	295	295	-	52	97	486		
General	87	30	294	294	-	22	42	388		
Unclassified	-	-	-	-	-	-	-	-		
Total	182	42	294	294	-	36	63	436		
<u>Area 5</u>										
Livestock	6	-	291	291	-	-	26	317		
Crop	161	24	330	330	-	40	34	428		
General	208	5	347	347	-	21	36	409		
Unclassified	-	-	-	-	-	-	-	-		
Total	375	13	339	339	-	29	35	416		
<u>Area 6</u>										
Livestock	49	-	140	140	7	-	46	193		
Crop	76	8	220	220	-	4	24	256		
General	89	8	241	241	-	-	33	282		
Unclassified	1	-	-	-	-	-	65	65		
Total	215	6	209	209	2	1	33	251		

7. List
(continued)

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Table 8

Farm Population
By Type of Farm

Source: Land Use Survey, 1936			
Type of Farm	N u m b e r		
	Resident	Members	Employables
	Operators	of Family	
<u>County</u>			
Livestock	78	322	107
Crop	399	1,501	486
General	480	2,097	652
Unclassified	1	-	-
Total	958	3,920	1,245
<u>Area 1</u>			
Livestock	9	42	10
Crop	102	358	116
General	87	362	108
Unclassified	-	-	-
Total	198	762	234
<u>Area 2</u>			
Livestock	11	38	11
Crop	2	5	2
General	16	77	25
Unclassified	-	-	-
Total	29	120	38
<u>Area 3</u>			
Livestock	-	-	-
Crop	12	27	15
General	5	21	5
Unclassified	-	-	-
Total	17	48	20
<u>Area 4</u>			
Livestock	5	22	6
Crop	74	328	99
General	84	345	110
Unclassified	-	-	-
Total	163	695	215

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Table 8
(Continued)

:	:	N u m b e r		:
		Resident	Members	
:	Type of Farm	Operators	of Family	Employables
:	:	:	:	:
<u>Area 5</u>				
	Livestock	6	26	8
	Crop	134	481	162
	General	204	921	291
	Unclassified	-	-	-
	Total	344	1,428	461
<u>Area 6</u>				
	Livestock	47	194	72
	Crop	75	302	92
	General	84	371	113
	Unclassified	1	-	-
	Total	207	867	277

30000 (30000)

1	10000	10000	10000
2	20000	20000	20000
3	30000	30000	30000

1	10000	10000	10000
2	20000	20000	20000
3	30000	30000	30000
4	40000	40000	40000
5	50000	50000	50000
6	60000	60000	60000
7	70000	70000	70000
8	80000	80000	80000
9	90000	90000	90000
10	100000	100000	100000

Table 9

Occupied Houses According to Condition

Source: Land Use Survey, 1936											
		N u m b e r				P e r c e n t					
Type of Farm	Oper- ators	Good : Houses	Fair : Houses	Poor : Houses	Total : Houses	Oper- ators	Good : Houses	Fair : Houses	Poor : Houses	Total	
County											
Livestock	78	18	23	37	78	8.1	23.1	29.5	47.4	100.0	
Crop	399	53	110	227	390	41.6	13.6	23.2	58.2	100.0	
General	480	49	157	265	471	50.1	10.4	33.3	56.3	100.0	
Unclassified	1	-	-	-	-	.1	-	-	-	-	
Total	958	120	290	529	939	100.0	12.8	30.9	56.3	100.0	
Area 1											
Livestock	9	3	5	1	9	4.5	35.3	55.6	11.1	100.0	
Crop	102	20	30	52	102	51.6	19.6	29.4	51.0	100.0	
General	87	19	33	33	85	43.9	22.4	38.8	38.8	100.0	
Unclassified	-	-	-	-	-	-	-	-	-	-	
Total	198	42	68	86	196	100.0	21.4	34.7	43.9	100.0	
Area 2											
Livestock	11	2	3	6	11	37.9	18.2	27.3	54.5	100.0	
Crop	2	-	-	2	2	6.9	-	-	100.0	100.0	
General	16	-	2	14	16	55.2	.0	12.5	87.5	100.0	
Unclassified	-	-	-	-	-	-	-	-	-	-	
Total	29	2	5	22	29	100.0	6.9	17.2	75.9	100.0	

[illegible][illegible]

Figure 1 consists of a 3x3 grid of micrographs. Each micrograph shows a different concentration of the compound 1,2,3,4-tetrahydro-6-methyl-5H-pyridine-5-carboxylic acid (1) on a bacterial lawn of *Bacillus subtilis*. The growth is indicated by the density of the bacterial colonies. The top row shows the highest growth, the middle row shows moderate growth, and the bottom row shows the lowest growth, indicating a dose-dependent inhibitory effect of the compound.

THE

20	1	0	0	1	1
21	1	0	1	1	1

Figure 1. The effect of the number of nodes on the number of iterations required to reach the optimal solution for the 1000 nodes problem.

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Schizothorax sinensis

Figure 1 consists of a 3x3 grid of scatter plots. The top row shows the relationship between the total number of children and the number of children in the household. The middle row shows the relationship between the number of children in the household and the number of children in the household. The bottom row shows the relationship between the number of children in the household and the number of children in the household. The x-axis for all plots is 'Number of children' and the y-axis is 'Number of children in the household'. The plots show a positive correlation between the number of children and the number of children in the household, with the correlation being stronger for the total number of children and the number of children in the household than for the number of children in the household.

[illegible]

1. *Phragmites australis* (Cav.) Trin. ex Steud.

10. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Lichtenthaler (1987). The total carotenoids were determined by the method of Arar and Johnson (1977).

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies growing on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

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Abstract—The purpose of this study was to determine if there were differences in the prevalence of musculoskeletal disorders among different types of workers. The subjects included all employees of a large manufacturing company who had been employed for at least one year. A questionnaire was sent to each employee asking about symptoms of musculoskeletal disorders and work-related factors. The results showed that the prevalence of musculoskeletal disorders was higher among manual workers than among non-manual workers. This finding suggests that manual workers are at a higher risk of developing musculoskeletal disorders than non-manual workers.

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10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1

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Table 9
(Continued)

Type of Farm	N u m b e r				P e r c e n t			
	Oper- ators :	Good Houses :	Fair Houses :	Poor Houses :	Oper- ators :	Good Houses :	Fair Houses :	Poor Houses :
Total :	Total :	Total :	Total :	Total :	Total :	Total :	Total :	Total :
Area 3								
Livestock	-	-	-	-	-	-	-	-
Crop	12	3	4	5	70.6	25.0	33.3	41.7
General	5	1	3	1	29.4	20.0	60.0	20.0
Unclassified	-	-	-	-	-	-	-	-
Total	17	4	7	6	100.0	23.5	41.2	35.3
Area 4								
Livestock	5	2	2	1	3.1	40.0	40.0	20.0
Crop	74	6	25	43	45.4	8.1	33.8	58.1
General	84	4	28	48	51.5	5.0	35.0	60.0
Unclassified	-	-	-	-	-	-	-	-
Total	163	12	55	92	100.0	7.5	34.6	57.9
Area 5								
Livestock	6	2	2	2	1.7	33.3	33.3	33.4
Crop	134	9	35	83	39.0	7.1	27.6	65.3
General	204	11	69	122	59.3	5.4	34.2	60.4
Unclassified	-	-	-	-	-	-	-	-
Total	344	22	106	207	100.0	6.6	31.6	61.8
Area 6								
Livestock	47	9	11	27	22.7	19.2	23.4	57.4
Crop	75	15	16	42	36.2	20.6	21.9	57.5
General	84	14	22	47	40.6	16.9	26.5	56.6
Unclassified	1	-	-	-	.5	-	-	-
Total	207	38	49	116	100.0	18.7	24.2	57.1

Table 10

Inventory of Home Facilities
By Type of Farm

Source: Land Use Survey, 1936												
		N u m b e r			P e r c e n t							
:	:	:	:	:	:	:	:	:	:	:	:	:
Type of Farm	Oper- :ators	No. :Facil.	Elec. :Home	Water :Dwell.	Tele- :phone	Radio :ators	Oper- :ators	No. :Facil.	Elec. :Home	Water :Dwell.	Tele- :phone	Radio
County												
Livestock	78	54	1	14	5	16	8.1	5.6	.1	1.4	.5	1.7
Crop	399	296	10	35	23	83	41.7	30.8	1.0	3.6	2.4	8.7
General	480	337	11	39	26	107	50.1	35.2	1.1	4.1	2.7	11.1
Unclassified	1	1	-	-	-	-	.1	.1	-	-	-	-
Total	958	688	22	88	54	206	100.0	71.8	2.2	9.1	5.6	21.5
Area 1												
Livestock	9	4	-	4	1	3	4.5	2.0	.0	2.0	.5	1.5
Crop	102	60	7	15	17	34	51.6	30.4	3.5	7.6	8.6	17.2
General	87	50	4	8	11	31	43.9	25.3	2.0	4.0	5.5	15.6
Unclassified	-	-	-	-	-	-	.0	.0	.0	.0	.0	.0
Total	198	114	11	27	29	68	100.0	57.7	5.5	13.6	14.6	34.3
Area 2												
Livestock	11	9	1	2	-	2	37.9	31.0	3.4	6.9	.0	6.9
Crop	2	2	-	-	-	-	6.9	6.9	.0	.0	.0	.0
General	16	15	-	-	-	1	55.2	51.7	.0	.0	.0	3.4
Unclassified	-	-	-	-	-	-	.0	.0	.0	.0	.0	.0
Total	29	26	1	2	-	3	100.0	89.6	3.4	6.9	.0	10.3

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Table 10

- 18 -

Table 11

Inventory of Farm Machinery
By Type of Farm

		Source: Land Use Survey, 1936									
Type of Farm	Residents	: Total Operators :				: Total Operators :				: Total Operators :	
		None	Auto	Truck	Tractor	Combine	None	Auto	Truck	Tractor	Combine
County											
Livestock	78	10	64	8	17	1					
Crop	399	43	323	117	259	88					
General	480	36	403	95	277	50					
Unclassified	1	1	-	-	-	-					
Total	958	90	790	220	553	139					
Area 1											
Livestock	9	2	7	2	6	1					
Crop	102	8	88	41	75	38					
General	87	9	72	18	45	17					
Unclassified	-	-	-	-	-	-					
Total	198	19	167	62	126	56					
Area 2											
Livestock	11	1	10	-	1	-					
Crop	2	-	2	-	-	-					
General	16	4	10	4	4	1					
Unclassified	-	-	-	-	-	-					
Total	29	5	22	4	5	1					

COMMITTEE ON THE STATUS OF WOMEN

REPORT OF THE COMMITTEE ON THE STATUS OF WOMEN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1. The Committee on the Status of Women was organized in 1946 to study the status of women in the United States and to make recommendations to the President and Congress. The Committee has held numerous public hearings and has received many suggestions from women's organizations and individuals. The Committee has also conducted extensive research into the various problems facing women in the United States.

2. The Committee has found that women in the United States are still facing many of the same problems that they faced in the past. These problems include discrimination in the workplace, unequal pay for equal work, and limited opportunities for advancement. The Committee has also found that women are still facing many of the same problems in the home, including the burden of household and child care responsibilities.

3. The Committee has made many recommendations to the President and Congress to address these problems. These recommendations include the passage of the Equal Pay Act, the creation of the Equal Employment Opportunity Commission, and the passage of the Civil Rights Act of 1964. The Committee has also recommended that the government provide more support for women's education and training, and that it provide more support for women's health and welfare.

4. The Committee believes that these recommendations are essential for the achievement of equality for women in the United States. The Committee urges the President and Congress to take prompt action on these recommendations.

Table 11
(Continued)

Type of Farm	Residents			Total Operators		
	Operators	None	Auto	Truck	Tractor	Combine
<u>Area 3</u>						
Livestock	-	-	-	-	-	-
Crop	12	1	8	5	8	4
General	5	2	2	1	3	-
Unclassified	-	-	-	-	-	-
Total	17	3	10	6	11	4
<u>Area 4</u>						
Livestock	5	1	4	1	1	-
Crop	74	10	59	26	53	22
General	84	3	75	21	52	9
Unclassified	-	-	-	-	-	-
Total	163	14	138	48	106	31
<u>Area 5</u>						
Livestock	6	-	5	1	2	-
Crop	134	12	109	29	93	20
General	204	13	172	38	126	19
Unclassified	-	-	-	-	-	-
Total	344	25	286	68	221	39
<u>Area 6</u>						
Livestock	47	6	38	4	7	-
Crop	75	12	57	16	30	4
General	84	5	72	12	47	4
Unclassified	1	1	-	-	-	-
Total	207	24	167	32	84	8

T E N U R E

Table 12

Comparison of Number of Operators, Acres Owned,
Acres Rented, and Total Acres Farmed
By Tenure

Source: Land Use Survey, 1936									
Tenure	N u m b e r			P e r c e n t					
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres
	Owned	Rented	Total	Owned	Rented	Total	Owned	Rented	Total
<u>County</u>									
Owner	347	220,851	220,851	33.2	-	220,851	25.3	-	25.3
Tenant	400	-	263,373	38.3	263,373	263,373	-	30.2	30.2
Owner-Additional	298	174,717	213,742	28.5	213,742	388,459	20.0	24.5	44.5
Total	1,045	395,568	477,115	100.0	477,115	872,683	45.3	54.7	100.0
<u>Area 1</u>									
Owner	78	42,710	42,710	35.0	-	42,710	21.1	-	21.1
Tenant	80	-	72,486	35.9	72,486	72,486	-	35.9	35.9
Owner-Additional	65	34,870	51,965	29.1	51,965	86,835	17.3	25.7	43.0
Total	223	77,580	124,451	100.0	124,451	202,031	38.4	61.6	100.0
<u>Area 2</u>									
Owner	9	6,240	6,240	27.3	-	6,240	10.0	-	10.0
Tenant	7	-	10,600	21.2	10,600	10,600	-	17.0	17.0
Owner-Additional	17	17,600	28,000	51.5	28,000	45,600	28.2	44.8	73.0
Total	33	23,840	38,600	100.0	38,600	68,440	38.2	61.8	100.0

Table 12
(Continued)

:	:	N u m b e r				P e r c e n t			
		Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres
Tenure	Operators:	Owned	Renter	Total	Operators:	Owned	Rented	Total	Total
Area 3									
Owner	8	5,600	-	5,600	47.1	39.3	-	39.3	39.3
Tenant	6	-	5,040	5,040	35.3	-	35.4	35.4	35.4
Owner-Additional	3	1,520	2,080	3,600	17.6	10.7	14.6	25.3	25.3
Total	17	7,120	7,120	14,240	100.0	50.0	50.0	100.0	100.0
Area 4									
Owner	56	36,471	-	36,471	30.8	28.6	-	28.6	28.6
Tenant	76	-	39,130	39,130	41.7	-	30.6	30.6	30.6
Owner-Additional	50	28,176	23,934	52,110	27.5	22.0	18.8	40.8	40.8
Total	182	64,647	63,064	127,711	100.0	50.6	49.4	100.0	100.0
Area 5									
Owner	124	69,763	-	69,763	33.1	27.7	-	27.7	27.7
Tenant	159	-	91,025	91,025	42.4	-	36.1	36.1	36.1
Owner-Additional	92	43,596	47,470	91,066	24.5	17.2	19.0	36.2	36.2
Total	375	113,359	138,495	251,854	100.0	44.9	55.1	100.0	100.0
Area 6									
Owner	72	60,067	-	60,067	33.5	28.0	-	28.0	28.0
Tenant	72	-	45,092	45,092	33.5	-	21.0	21.0	21.0
Owner-Additional	71	48,955	60,293	109,248	33.0	22.8	28.2	51.0	51.0
Total	215	109,022	105,385	214,407	100.0	50.8	49.2	100.0	100.0

Table 13

Comparison of Number of Operators, Acres Plowed, Acres
of Native Pasture, Total Acres Farmed
By Tenure

		Source: Land Use Survey, 1936									
		N u m b e r					P e r c e n t				
Tenure		Operators	Plowed	N.Pasture	Acres	Acres	Acres	Plowed	N.Pasture	Acres	Acres
					Total	Total	Operators	Plowed	N.Pasture	Total	Total
<u>County</u>											
Owner	347	107,511	113,340		220,851	33.2	12.3	12.9		25.2	
Tenant	400	164,240	99,133		263,373	38.3	18.8	11.4		30.2	
Owner-Add.	298	176,751	211,708		388,459	28.5	20.3	24.3		44.6	
Total	1,045	448,502	424,181		872,683	100.0	51.4	48.6		100.0	
<u>Area 1</u>											
Owner	78	24,284	18,426		42,710	35.0	12.0	9.1		21.1	
Tenant	80	53,747	18,739		72,486	25.9	26.6	9.3		35.9	
Owner-Add.	65	61,574	25,261		86,835	29.1	30.5	12.5		43.0	
Total	223	139,605	62,426		202,031	100.0	69.1	30.9		100.0	
<u>Area 2</u>											
Owner	9	2,495	3,745		6,240	27.3	4.0	6.0		10.0	
Tenant	7	2,420	8,180		10,600	21.2	3.9	12.1		17.0	
Owner-Add.	17	6,155	39,445		45,600	51.5	9.8	63.2		73.0	
Total	33	11,070	51,370		62,440	100.0	17.7	82.3		100.0	

Table 13
(Continued)

: Tenure	: N u m b e r				: P e r c e n t			
	: Acres		: Acres		: Acres		: Acres	
	: Operators	: Plowed	: N.Pasture	: Total	: Operators	: Plowed	: N.Pasture	: Total
<u>Area 3</u>								
Owner	8	4,160	1,440	5,600		47.1	29.2	10.1
Tenant	6	3,450	1,590	5,040		35.3	24.2	11.2
Owner-Add.	3	1,030	2,570	3,600		17.6	7.3	18.0
Total	17	8,640	5,600	14,240		100.0	60.7	39.3
<u>Area 4</u>								
Owner	56	20,389	16,082	36,471		30.8	16.0	12.6
Tenant	76	26,323	12,807	39,130		41.8	20.6	10.0
Owner-Add.	50	32,557	19,553	52,110		27.4	25.5	15.3
Total	182	79,269	48,442	127,711		100.0	62.1	37.9
<u>Area 5</u>								
Owner	124	41,768	27,995	69,763		33.1	16.6	11.1
Tenant	159	61,249	29,776	91,025		42.4	24.3	11.8
Owner-Add.	92	52,786	38,280	91,066		24.5	21.0	15.2
Total	375	155,803	96,051	251,854		100.0	61.9	38.1
<u>Area 6</u>								
Owner	72	14,415	45,652	60,067		33.5	6.6	21.3
Tenant	72	17,051	28,041	45,092		33.5	8.0	13.1
Owner-Add.	71	22,649	86,599	109,248		33.0	10.6	40.4
Total	215	54,115	160,292	214,407		100.0	25.2	74.8

Table 14

Acreages of Various Uses of Plowed Land
By Tenure

Source: Land Use Survey, 1936											
		N u m b e r									
Tenure		Operators	Small	Row	Crop	Hay	Fallow	Idle	Total		
County											
Owner	347	6,466	73,324	555	12,089	15,077	107,511				
Tenant	400	11,640	103,707	188	18,115	30,590	164,240				
Owner-Additional	298	10,416	109,877	220	18,769	37,469	176,751				
Total	1,045	28,522	286,908	963	48,973	83,136	448,502				
Area 1											
Owner	78	830	9,601	380	6,583	6,890	24,284				
Tenant	80	5,880	18,822	188	11,720	17,137	53,747				
Owner-Additional	65	3,776	22,908	40	11,975	22,875	61,574				
Total	223	10,486	51,331	608	30,278	46,902	139,605				
Area 2											
Owner	9	-	1,365	-	-	490	1,855				
Tenant	7	-	1,175	-	640	925	2,740				
Owner-Additional	17	40	4,005	-	320	2,110	6,475				
Total	33	40	6,545	-	960	3,525	11,070				

Table 14
(Continued)

:	:	:	:	N u m b e r							:
				:	:	:	:	:	:	:	
Tenure	Operators	Small	Grain	Row	Hay	Fallow	Idle	Total			
Area 3											
Owner	8	2,340	1,280	-	-	-	540	4,160			
Tenant	6	1,760	1,270	-	-	-	420	3,450			
Owner-Additional	3	-	990	-	-	-	40	1,030			
Total	17	4,100	3,540	-	-	-	1,000	8,640			
Area 4											
Owner	56	1,535	14,626	-	-	2,136	2,092	20,389			
Tenant	76	1,320	18,815	-	-	1,855	4,333	26,323			
Owner-Additional	50	4,850	20,032	-	-	2,610	5,065	32,557			
Total	182	7,705	53,473	-	-	6,601	11,490	79,269			
Area 5											
Owner	124	1,211	34,947	-	-	2,430	3,180	41,768			
Tenant	159	1,930	49,759	-	-	4,220	5,340	61,249			
Owner-Additional	92	1,750	42,278	-	-	4,184	4,574	52,786			
Total	375	4,891	126,984	-	-	10,834	13,094	155,803			
Area 6											
Owner	72	550	11,505	175	-	300	1,885	14,415			
Tenant	72	750	13,866	-	-	-	2,435	17,051			
Owner-Additional	71	-	19,664	180	-	-	2,805	22,649			
Total	215	1,300	45,035	355	-	300	7,125	54,115			

Table 15

Acreages of Various Uses of Plowed Land
By Tenure

		Source: Land Use Survey, 1936									
Tenure	Operators	P e r c e n t									
		: Small	: Row	: Hay	: Fallow	: Idle	: Total				
		: Grain	: Crop								
County											
Owner	33.2	1.5	16.3	.1	2.7	3.3	23.9				
Tenant	38.3	2.6	23.2	-	4.0	6.8	36.6				
Owner-Additional	28.5	2.3	24.5	.1	4.2	8.4	39.5				
Total	100.0	6.4	64.0	.2	10.9	18.5	100.0				
Area 1											
Owner	35.0	.6	6.9	.3	4.7	4.9	17.4				
Tenant	35.9	4.2	13.5	.1	8.4	12.3	38.5				
Owner-Additional	29.1	2.7	16.4	-	8.6	16.4	44.1				
Total	100.0	7.5	36.8	.4	21.7	33.6	100.0				
Area 2											
Owner	27.3	-	12.3	-	-	4.4	16.7				
Tenant	21.2	-	10.6	-	5.8	8.4	24.8				
Owner-Additional	51.5	.4	36.2	-	2.9	19.1	58.5				
Total	100.0	.4	59.1	-	8.7	31.8	100.0				

(continued)

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Condition	Control (%)	MCI (%)	AD (%)
A	~95	~85	~75
B	~95	~85	~75
C	~95	~85	~75
D	~95	~85	~75

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (a), 10⁷ cells/ml (b), 10⁸ cells/ml (c), and 10⁹ cells/ml (d). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (a), 10⁷ cells/ml (b), 10⁸ cells/ml (c), and 10⁹ cells/ml (d). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (a), 10⁷ cells/ml (b), 10⁸ cells/ml (c), and 10⁹ cells/ml (d).

Figure 1 consists of five micrographs labeled (a) through (e), arranged in two rows. The top row contains (a), (b), and (c). The bottom row contains (d) and (e). Each micrograph shows a field of cells. (a) shows cells with a relatively normal, flat morphology. (b) shows cells with some lipid accumulation, indicated by dark staining. (c) shows cells with more pronounced lipid accumulation and some foamy appearance. (d) and (e) show cells with a highly foamy, xanthoma-like morphology, characterized by large, clear, vacuolated cells. The staining is dark, likely Oil Red O, highlighting lipid content.

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0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

100	100	100	100
100	100	100	100

10	11	12	13
14	15	16	17

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1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

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Table 15
(Continued)

Tenure	P e r c e n t									
	Operators	Small	Row	Fallow	Hay	Idle	Total			
Area 3										
Owner	47.1	27.1	14.8	-	-	6.2	48.1			
Tenant	35.3	20.4	14.7	-	-	4.8	39.9			
Owner-Additional	17.6	-	11.5	-	-	.5	12.0			
Total	100.0	47.5	41.0	-	-	11.5	100.0			
Area 4										
Owner	30.8	1.9	18.5	2.7	-	2.6	25.7			
Tenant	41.8	1.7	23.7	2.3	-	5.5	33.2			
Owner-Additional	27.4	6.1	25.3	3.3	-	6.4	41.1			
Total	100.0	9.7	67.5	8.3	-	14.5	100.0			
Area 5										
Owner	33.1	.8	22.4	1.6	-	2.0	26.8			
Tenant	42.4	1.2	31.9	2.7	-	3.5	39.3			
Owner-Additional	24.5	1.1	27.2	2.7	-	2.9	33.9			
Total	100.0	3.1	81.5	7.0	-	8.4	100.0			
Area 6										
Owner	33.5	1.0	21.3	.6	.3	3.5	26.7			
Tenant	33.5	1.4	25.6	-	-	4.5	31.5			
Owner-Additional	33.0	-	36.3	-	.3	5.2	41.8			
Total	100.0	2.4	83.2	.6	.6	13.2	100.0			

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Table 16

Farm Population
By Tenure

Source: Land Use Survey, 1936

Tenure	N u m b e r			
	Resident	Members	Of Family	Employables

County

Owner	307	1,190	384
Tenant	368	1,492	444
Owner-Additional	283	1,238	417
Total	958	3,920	1,245

Area 1

Owner	67	231	71
Tenant	72	289	94
Owner-Additional	59	242	69
Total	198	762	234

Area 2

Owner	8	37	14
Tenant	5	14	6
Owner-Additional	16	69	18
Total	29	120	38

Area 3

Owner	8	19	9
Tenant	6	16	7
Owner-Additional	3	13	4
Total	17	48	20

Area 4

Owner	47	161	51
Tenant	70	331	87
Owner-Additional	46	203	77
Total	163	695	215

Area 5

Owner	109	468	151
Tenant	145	565	173
Owner-Additional	90	395	137
Total	344	1,428	461

Area 6

Owner	68	274	88
Tenant	70	277	77
Owner-Additional	69	316	112
Total	207	867	277

1970-1971 Annual Report

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Category	Members	Non-Members	Total
Operating	10	10	20
Family	10	10	20
Other	10	10	20

Table 17

Occupied Houses According to Condition
By Tenure

Source: Land Use Survey, 1936

Tenure	Number			Percent		
	Oper- :ators	Good : Houses	Poor : Houses	Oper- :ators	Good : Houses	Poor : Houses
County	307	45	95	32.0	14.9	31.5
Owner	368	29	108	38.4	8.1	30.1
Tenant	283	46	87	29.6	16.5	31.3
Owner-Add.	958	120	290	100.0	12.8	30.9
Total						
Area 1	67	14	24	33.8	20.9	35.8
Owner	72	15	23	36.4	21.1	32.4
Tenant	59	13	21	29.8	22.4	36.2
Owner-Add.	198	42	68	100.0	21.4	34.7
Total						
Area 2	8	-	1	27.6	-	12.5
Owner	5	-	1	17.2	-	20.0
Tenant	16	2	3	55.2	12.5	18.8
Owner-Add.	29	2	5	100.0	6.9	17.2
Total						

Table 17
(Continued)

Tenure	N u m b e r				P e r c e n t			
	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :	: Oper- : Good : Fair : Poor :
	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total	: ators : Houses: Houses: Houses: Total
Area 3								
Owner	8	2	4	2	8	47.1	25.0	50.0
Tenant	6	-	2	4	6	35.3	-	33.3
Owner-Add.	3	2	1	-	3	17.6	66.7	33.3
Total	17	4	7	6	17	100.0	23.5	41.2
Area 4								
Owner	47	4	20	21	45	28.8	8.9	44.4
Tenant	70	2	21	47	70	42.9	2.9	30.0
Owner-Add.	46	6	14	24	44	28.3	13.6	31.8
Total	163	12	55	92	159	100.0	7.5	34.6
Area 5								
Owner	109	9	32	66	107	31.7	8.4	29.9
Tenant	145	4	45	91	140	42.2	2.9	32.1
Owner-Add.	90	9	29	50	88	26.1	10.2	33.0
Total	344	22	106	207	335	100.0	6.6	31.6
Area 6								
Owner	68	16	14	37	67	32.9	23.9	20.9
Tenant	70	8	16	43	67	33.8	11.9	23.9
Owner-Add.	69	14	19	36	69	33.3	20.3	27.5
Total	207	38	49	116	203	100.0	18.7	24.1

S I Z E O F F A R M

Table 18

Acres of Crop and Pasture Land
Size of Farm

Source: Land Use Survey, 1936									
Size of Farm	Oper- ators :	Acres Plowed :	Acres Pasture :	Acres Total :	Oper- ators :	Acres Plowed :	Acres Pasture :	Acres Total :	
County									
0-240	78	8,776	4,482	13,258	7.6	1.0	.5	1.5	
241-400	313	61,676	43,335	105,011	30.0	7.1	5.0	12.1	
401-720	290	104,893	66,547	171,440	27.8	12.0	7.6	19.6	
721-1040	137	71,244	51,131	122,375	13.1	8.2	5.8	14.0	
1041-1920	156	122,031	92,451	214,482	14.9	14.0	10.6	24.6	
1921-3840	51	51,849	85,369	137,218	4.9	5.9	9.8	15.7	
3841-5760	14	24,473	36,505	60,978	1.3	2.8	4.2	7.0	
5761-Over	5	3,560	44,361	47,921	2.4	.4	5.1	5.5	
Total	1,045	448,502	424,181	872,683	100.0	51.4	48.6	100.0	
Area 1									
0-240	28	3,050	1,250	4,300	12.6	1.5	.6	2.1	
241-400	45	9,042	5,790	14,832	20.2	4.5	2.9	7.4	
401-720	57	23,326	11,194	34,520	25.6	11.5	5.5	17.0	
721-1040	36	22,740	10,496	33,236	16.1	11.3	5.2	16.5	
1041-1920	38	38,869	16,706	55,575	17.0	19.2	8.3	27.5	
1921-3840	13	21,370	12,680	34,050	5.8	10.6	6.3	16.9	
3841-5760	6	21,208	4,310	25,518	2.7	10.5	2.1	12.6	
5761-Over	-	-	-	-	-	-	-	-	
Total	223	139,605	62,426	202,031	100.0	69.1	30.9	100.0	

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1. 1990年12月25日，在“九七”香港回归前夕，香港各界人士纷纷发表文章，讨论香港回归后的前途。其中，有人提出“一国两制”是香港回归后的最佳方案。

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00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99

Figure 1 illustrates the evolution of a 2D lattice of particles. The top row shows a single particle moving from left to right across six steps. The bottom row shows a pair of particles moving from left to right across six steps. Arrows indicate the direction of movement.

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81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120
 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140
 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160
 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180
 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200
 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220
 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240
 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260
 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280
 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300
 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320
 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340
 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360
 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380
 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400
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 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440
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 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560
 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580
 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600
 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620
 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640
 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660
 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680
 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700
 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720
 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740
 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760
 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780
 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800
 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820
 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840
 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860
 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880
 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900
 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920
 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940
 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960
 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980
 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000
 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020
 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040
 1041 1042 1043 1044 1045 1046 1047 10

[illegible]

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities related to the project. It emphasizes the need for transparency and accountability in financial management.

2. The second part outlines the specific steps involved in setting up a budgeting system. This includes identifying all potential costs, estimating their values, and allocating funds accordingly. It also mentions the importance of regular monitoring and adjustment of the budget as the project progresses.

3. The third section focuses on the role of communication in successful project management. It highlights the necessity of clear and frequent communication between team members, stakeholders, and sponsors to ensure everyone is aligned with the project goals and objectives.

4. The final part of the document provides a summary of key points and offers some concluding thoughts on the overall approach to managing the project. It reiterates the importance of staying organized, communicative, and adaptable throughout the entire process.

[illegible]

Journal of Management Education

Table 18
(Continued)

Size of Farm	Number				Percent			
	Oper- ators	Acres Plowed	Acres Pasture	Acres Total	Oper- ators	Acres Plowed	Acres Pasture	Acres Total
Area 2								
0-240	-	-	-	-	-	-	-	-
241-400	5	520	1,160	1,680	15.2	.8	1.9	2.7
401-720	7	1,530	2,790	4,320	21.2	2.5	4.5	7.0
721-1040	6	1,305	3,935	5,240	18.1	2.1	6.3	8.4
1041-1920	5	1,955	5,525	7,480	15.2	3.1	8.8	11.9
1921-3840	7	2,960	17,880	20,840	21.2	4.7	28.6	33.3
3841-5760	1	200	3,680	3,880	3.0	.3	5.9	6.2
5761-Over	2	2,600	16,400	19,000	6.1	4.2	26.3	30.5
Total	33	11,070	51,370	62,440	100.0	17.7	82.3	100.0
Area 3								
0-240	3	290	190	480	17.6	2.0	1.3	3.3
241-400	2	490	150	640	11.8	3.4	1.1	4.5
401-720	5	2,120	600	2,720	29.4	14.9	4.2	19.1
721-1040	2	1,410	590	2,000	11.8	9.9	4.1	14.0
1041-1920	4	2,250	4,070	6,320	23.5	15.8	28.7	44.5
1921-3840	1	2,080	-	2,080	5.9	14.6	-	14.6
3841-5760	-	-	-	-	-	-	-	-
5761-Over	-	-	-	-	-	-	-	-
Total	17	8,640	5,600	14,240	100.0	60.6	39.4	100.0
Area 4								
0-240	19	1,937	1,237	3,174	10.4	1.5	1.0	2.5
241-400	57	12,787	5,850	18,637	31.3	10.0	4.6	14.6
401-720	55	22,683	9,477	32,160	30.2	17.8	7.4	25.2
721-1040	17	10,890	3,600	14,490	9.3	8.5	2.8	11.3

Table 18
(Continued)

Size of Farm	Number			Percent			
	Oper- ators	Acres Plowed	Acres Pasture	Acres Total	Oper- ators	Acres Plowed	Acres Pasture Total
Area 4 (Continued)							
1041-1920	26	22,027	12,383	34,410	14.4	17.2	26.9
1921-3840	6	7,805	8,775	16,580	3.3	6.1	13.0
3841-5760	2	1,140	7,120	8,260	1.1	.9	6.5
5761-Over	-	-	-	-	-	-	-
Total	182	79,269	48,442	127,711	100.0	62.0	100.0
Area 5							
0-240	19	2,415	1,117	3,532	5.1	.9	1.5
241-400	133	28,344	17,850	46,194	35.4	11.3	18.5
401-720	110	41,326	22,894	64,220	29.3	16.4	25.5
721-1040	52	27,755	18,622	46,377	13.9	11.0	16.4
1041-1920	52	42,798	25,977	68,775	13.9	17.0	27.3
1921-3840	9	13,165	9,591	22,756	2.4	5.2	9.0
3841-5760	-	-	-	-	-	-	-
5761-Over	-	-	-	-	-	-	-
Total	375	155,803	96,051	251,854	100.0	61.8	100.0
Area 6							
0-240	10	1,084	688	1,772	4.7	.5	.8
241-400	71	10,493	12,535	23,028	33.0	4.9	10.7
401-720	56	13,908	19,592	33,500	26.0	6.5	15.6
721-1040	24	7,144	13,888	21,032	11.2	3.3	9.9
1041-1920	31	14,132	27,790	41,922	14.4	6.6	19.6
1921-3840	15	4,469	36,443	40,912	7.0	2.1	19.1
3841-5760	5	1,925	21,395	23,320	2.3	.9	10.9
5761-Over	3	960	27,961	28,921	1.4	.4	13.4
Total	215	54,115	160,292	214,407	100.0	25.2	100.0

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Table 19

Condition of Farmstead
Size of Farm

Source: Land Use Survey, 1936

Size of Farm	N u m b e r					P e r c e n t				
	: Resi. :	: Good :	: Fair :	: Poor :	: Total :	: Resi. :	: Good :	: Fair :	: Poor :	: Total :
County										
0-240	72	14	16	41	71	7.5	19.7	22.5	57.8	100.0
241-400	285	24	78	178	280	29.7	8.6	27.9	63.5	100.0
401-720	269	24	78	159	261	28.2	9.2	29.9	60.9	100.0
721-1040	127	19	45	60	124	13.3	15.3	36.3	48.4	100.0
1041-1920	145	21	53	67	141	14.9	14.9	37.6	47.5	100.0
1921-3840	46	12	17	17	46	4.8	26.0	37.0	37.0	100.0
3841-5760	11	5	2	4	11	1.1	45.5	18.2	36.3	100.0
5761-Over	5	1	1	3	5	.5	20.0	20.0	60.0	100.0
Total	960	120	290	529	939	100.0	12.8	30.9	56.3	100.0
Area 1										
0-240	26	11	6	9	26	13.0	42.3	23.1	34.6	100.0
241-400	39	7	13	19	39	19.5	17.9	33.4	48.7	100.0
401-720	50	8	15	26	49	25.0	16.3	30.6	53.1	100.0
721-1040	31	6	14	11	31	15.5	19.4	45.2	35.4	100.0
1041-1920	37	6	14	14	34	18.5	17.6	41.2	41.2	100.0
1921-3840	13	2	5	6	13	6.5	15.4	38.5	46.1	100.0
3841-5760	4	2	1	1	4	2.0	50.0	25.0	25.0	100.0
5761-Over	-	-	-	-	-	-	-	-	-	-
Total	200	42	68	86	196	100.0	21.4	34.7	43.9	100.0

Table 19
(Continued)

Size of Farm	N u m b e r					P e r c e n t				
	Resi.	Fair	Poor	Total	Resi.	Oper.	Good	Fair	Poor	Total
Area 2										
0-240	-	-	-	-	-	-	-	-	-	-
241-400	5	-	5	5	17.3	-	-	-	100.0	100.0
401-720	6	-	6	6	20.7	-	-	-	100.0	100.0
721-1040	6	1	5	6	20.7	-	-	16.7	83.3	100.0
1041-1920	5	1	4	5	17.2	-	-	20.0	80.0	100.0
1921-3840	5	2	1	5	17.2	-	40.0	40.0	20.0	100.0
3841-5760	-	-	-	-	-	-	-	-	-	-
5761-Over	2	1	1	2	6.9	-	-	50.0	50.0	100.0
Total	29	2	22	29	100.0	-	6.9	17.2	75.9	100.0
Area 3										
0-240	2	1	1	3	17.6	33.3	33.3	33.3	33.3	100.0
241-400	2	-	-	2	11.8	-	-	100.0	-	100.0
401-720	5	-	2	5	29.4	-	-	60.0	40.0	100.0
721-1040	2	-	2	2	11.8	-	-	-	100.0	100.0
1041-1920	4	3	1	4	23.5	75.0	25.0	-	-	100.0
1921-3840	1	-	1	1	5.9	-	-	-	100.0	100.0
3841-5760	-	-	-	-	-	-	-	-	-	-
5761-Over	-	-	-	-	-	-	-	-	-	-
Total	17	4	6	17	100.0	23.5	41.2	35.5	35.5	100.0
Area 4										
0-240	15	1	2	15	9.2	6.7	13.3	80.0	80.0	100.0
241-400	53	1	17	53	32.5	1.9	32.1	66.0	66.0	100.0
401-720	48	2	15	45	29.5	4.4	33.3	62.3	62.3	100.0
721-1040	16	3	8	16	9.8	20.0	46.7	33.3	33.3	100.0
1041-1920	23	1	12	23	14.1	4.3	52.2	43.5	43.5	100.0

Table 19
(Continued)

		N u m b e r				P e r c e n t				
Size of Farm	Resi. :	:	:	:	Resi. :	:	:	:		
:	Oper. :	Good :	Fair :	Poor :	Total :	Oper. :	Good :	Fair :	Poor :	Total :
Area 4 (Continued)										
1921-3840	6	2	2	2	6	3.7	33.3	33.3	33.3	100.0
3841-5760	2	2	-	-	2	1.2	100.0	-	-	100.0
5761-Over	-	-	-	-	-	-	-	-	-	-
Total	163	12	56	92	160	100.0	7.5	34.6	57.9	100.0
Area 5										
0-240	18	-	3	14	17	5.2	-	17.6	82.4	100.0
241-400	119	3	33	80	116	34.6	2.6	28.4	69.0	100.0
401-720	104	6	32	63	101	30.2	5.9	31.7	62.4	100.0
721-1040	49	8	19	20	47	14.3	17.0	40.4	42.6	100.0
1041-1920	47	5	15	20	47	13.7	10.6	31.9	57.5	100.0
1921-3840	7	-	4	3	7	2.0	-	57.1	42.9	100.0
3841-5760	-	-	-	-	-	-	-	-	-	-
5761-Over	-	-	-	-	-	-	-	-	-	-
Total	344	22	106	207	335	100.0	6.6	31.6	61.8	100.0
Area 6										
0-240	10	1	4	5	10	4.8	10.0	40.0	50.0	100.0
241-400	67	13	13	39	65	32.4	20.0	20.0	60.0	100.0
401-720	56	8	13	34	55	27.1	14.5	23.6	61.9	100.0
721-1040	23	2	4	17	23	11.1	8.7	17.4	73.9	100.0
1041-1920	29	6	10	12	28	14.0	21.4	35.7	42.9	100.0
1921-3840	14	6	4	4	14	6.8	42.8	28.6	28.6	100.0
3841-5760	5	1	1	3	5	2.4	20.0	20.0	60.0	100.0
5761-Over	3	1	-	2	3	1.4	33.3	-	66.7	100.0
Total	207	38	49	116	203	100.0	18.7	24.1	57.2	100.0

Y E A R S O N F A R M

Table 20

Condition of Farmstead
Years on Farm

Source: Land Use Survey, 1936

: :										
---	--	--	--	--	--	--	--	--	--	--

Table 20
(Continued)

Years on Farm	N u m b e r					P e r c e n t				
	Op- ators	Good	Fair	Poor	Total	Op- ators	Good	Fair	Poor	Total
Area 2										
0-1	3	-	-	3	3	10.3	-	-	100.0	100.0
2-3	-	-	-	-	-	-	-	-	-	-
4-6	4	-	-	4	4	13.8	-	-	100.0	100.0
7-9	3	-	1	2	3	10.3	-	33.3	66.7	100.0
10-12	1	-	-	1	1	3.4	-	-	100.0	100.0
13-Over	18	2	4	12	18	62.2	11.1	22.2	66.7	100.0
Unknown	-	-	-	-	-	-	-	-	-	-
Total	29	2	5	22	29	100.0	6.9	17.2	75.9	100.0
Area 3										
0-1	1	-	-	-	-	5.9	-	-	-	-
2-3	6	2	1	1	4	35.3	50.0	25.0	25.0	100.0
4-6	1	-	-	3	3	5.9	-	-	100.0	100.0
7-9	2	-	1	1	2	11.8	-	50.0	50.0	100.0
10-12	-	-	-	1	1	-	-	-	100.0	100.0
13-Over	7	2	5	-	7	41.1	28.6	71.4	-	100.0
Unknown	-	-	-	-	-	-	-	-	-	-
Total	17	4	7	6	17	100.0	23.5	41.2	35.3	100.0
Area 4										
0-1	18	-	7	11	18	11.0	-	38.9	61.1	100.0
2-3	26	-	5	20	25	16.0	-	20.0	80.0	100.0
4-6	33	1	10	22	33	20.2	3.0	30.3	66.7	100.0
7-9	10	1	4	5	10	6.1	10.0	40.0	50.0	100.0
10-12	11	1	5	3	9	6.8	11.1	55.6	33.3	100.0
13-Over	64	9	24	30	63	39.3	14.3	38.1	47.6	100.0
Unknown	1	-	-	1	1	.6	-	-	100.0	100.0
Total	163	12	55	92	159	100.0	7.5	34.6	57.9	100.0

Table 20
(Continued)

		N u m b e r				P e r c e n t			
Years on Farm		Oper- : ators :	Good : Fair :	Poor :	Total :	Oper- : ators :	Good : Fair :	Poor :	Total :
Area 5									
0-1	48	1	11	33	45	14.0	2.2	24.4	73.4
2-3	59	1	20	36	57	17.2	1.8	35.1	63.1
4-6	50	1	15	32	48	14.5	2.0	31.3	66.7
7-9	29	4	8	17	29	8.4	13.8	27.6	58.6
10-12	20	1	11	7	19	5.8	5.3	57.9	36.8
13-Over	138	14	41	82	137	40.1	10.2	29.9	59.9
Unknown	-	-	-	-	-	-	-	-	-
Total	344	22	106	207	335	100.0	6.6	31.6	61.8
Area 6									
0-1	30	3	7	19	29	14.5	10.3	24.2	65.5
2-3	30	5	6	18	29	14.5	17.2	20.7	62.1
4-6	28	1	8	18	27	13.5	3.7	29.6	66.7
7-9	7	1	2	4	7	3.4	14.3	28.6	57.1
10-12	17	4	2	11	17	8.2	23.5	11.8	64.7
13-Over	92	24	23	45	92	44.4	26.1	25.0	48.9
Unknown	3	-	1	1	2	1.4	-	50.0	50.0
Total	207	38	49	116	203	100.0	18.7	24.1	57.2

S U B S I D I E S

THE UNIVERSITY OF CHICAGO

Table 21

Federal Payments
For Period 1933-1937

Source: Individual Agency	
Type of Payment Received	Amount in Dollars
Loans	
Federal Land Bank*	949,956
Regional Agricultural Credit Corp.	81,275
Emergency Crop and Drought Loans	495,616
Production Credit Association	30,021
Rural Rehabilitation Loans	135,855
Sub Total	1,692,723
Grants	
Rural Rehabilitation Grants	142,700
AAA Payments	1,195,533
A.C.P. Payments	294,372
AAA Livestock	281,754
C.W.A.	364,756
W.P.A.	332,233
F.E.R.A.	828,668
Sub Total	3,440,016
Grand Total	
Total Emergency Expenditures (*Excluding above because of good security)	4,152,582
Emergency Expenditures Per Capita (Population Census, 1930)	393

APPENDIX B

SAMPLE FARM SCHEDULE USED

LAND USE SURVEY

BACA COUNTY

OF THE
FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE
WASHINGTON, D. C.

Bureau of Agricultural Economics
Division of Project Organization
OPERATOR'S SCHEDULE
(Dry Farm Land)

Date _____
Twp _____
Range _____
Sec. _____

Oper. Name _____
Address _____ Farmstead Twp _____ Range _____ Sec _____
1. State _____ 2. County _____ 3. Area _____ 4. Schedule No. _____
5. Residence _____ 7. Tenure _____ 9. No. Yrs. Region _____ 11. Oper. Age _____
6. Type of Farm _____ 8. No. Yrs. Farm _____ 10. Size of Farm _____ 12. Condition of Farmstead _____
13. Acres Owned _____ Acres Rented _____ 15. Acres Total _____

LAND USE

16. Wheat _____	20. Sorghums _____	24. Cover Crop _____	28. Tame Pasture _____
17. Barley _____	21. Hay _____	25. Fallow _____	29. Other _____
18. Corn _____	22. Cotton _____	26. Idle _____	30. Total _____
19. Broom Corn _____	23. Beans _____	27. Native Pasture _____	

ACREAGE SOWN TO WHEAT:

31. Cg. _____ 32. Cu _____ 33. CuCr _____ 34. CuCgb _____ 35. CuCf _____
36. CuCa _____ 37. Total _____

PRINCIPAL CROPS

CORN, WHEAT, BARLEY, etc.		FEED CROPS	
38. Kind _____	39. Acres _____	40. Total A. _____	41. Kind _____
			42. Acres _____
			43. Total _____

LIVESTOCK (Total A. U.)

BREEDING STOCK		FEEDERS	
: Up to: 1-2: 2 yrs: A. U. _____		: Up to: 1-2: 2 yrs: A. U. _____	
: 1 yr.: Yrs: & over: _____		: 1 yr.: Yrs: & over: _____	
44. Cattle _____	48. Cattle _____	45. Sheep _____	49. Sheep _____
45. Sheep _____	49. Sheep _____	46. Swine _____	50. Swine _____
46. Swine _____	50. Swine _____	47. Total _____	51. Total _____
47. Total _____	51. Total _____		

OTHER

52. _____ : Up to: 1-2: 2 yrs.: A. U. _____
: 1 yr.: Yrs: & over: _____
52. Dairy Stk. _____
53. Horse & Mu. _____
54. Poultry _____
55. Total _____

INVENTORY OF FACILITIES:

56. Power Line _____	60. Water-Dwell. _____	64. Upright Silo _____	68. Combine _____
57. Home Unit _____	61. Telephone _____	65. Auto _____	69. Source Dom. _____
58. In Home _____	62. Radio _____	66. Truck _____	Water _____
59. In Bldg. _____	63. Trench Silo _____	67. Tractor _____	70. Depth Well _____
			71. Source Stock _____
			Water _____

72. No. Members on Farm _____ 73. Employables (16-65) _____
74. Man-Wk. Days Employ. Exclu. of Wk. Relief _____ 75. Income from this _____
76. Prev. Occu. before Settling in Region _____ 77. State _____ 78. Town _____
79. Original Breaking (This Farm) _____

CROP RECORD (Operator's Record on This Farm) 80. Good _____ 81. Fair _____ 82. Poor _____
83. Failure _____
28. _____ 29. _____ 30. _____ 31. _____ 32. _____ 33. _____ 34. _____ 35. _____ 36. _____ 37. _____

TENANCY

Type of Rent: _____	Acres: _____	Amount: _____	Duration: _____	Landlords _____	Address _____	Relationship _____
			of Lease: _____	Name _____		

SOIL CONSERVING PRACTICES: (Acres)

84. Contour _____ 85. Terrace _____ 86. Chisel _____ 87. Strip Crop _____ 88. Cover Crop _____

RECOMMENDED TYPE OF FARMING

Type _____	Total Acres _____	Pasture _____	Small Grain _____	Row Crops _____	Fallow _____	Livestock _____

GOVERNMENT LOANS AND SUBSIDIES

89. Agri. Conserv. _____	92. Seed Loans _____	95. R.R. Grants _____
90. Wheat _____	93. Feed Loans _____	96. Work Relief _____
91. Cotton _____	94. R.R. Loans _____	97. Direct Relief _____

(Enumerator's Signature) _____

(Checker's Signature) _____

98. Children Attending School and of Pre-School Age

	0-2	3	4	5	6-10	10 & over	Total	No. Attending School
Yrs:	Yrs:	Yrs:	Yrs:	Yrs:	Yrs:	Yrs:	Yrs:	
Children:	:	:	:	:	:	:	:	School District (Number and Name)

99. Factors limiting the capacity of the operated unit to support a farm family:

Order of Importance

- _____ 1. None
- _____ 2. Size of Unit
- _____ 3. Insufficient Grazing Land
- _____ 4. Crop land severely damaged by erosion
- _____ 5. Pasture land badly depleted by over-grazing, erosion, or lack of moisture
- _____ 6. Lack of control of land
- _____ 7. Insufficient number of livestock
- _____ 8. Crop land unsuitable for crop production
- _____ 9. Too much crop land to be economically farmed
- _____ 10. Insufficient crop land
- _____ 11. Lack of feed storage
- _____ 12. Lack of water
- _____ 13. Inadequate machinery

100. Probable normal gross annual cash income from farm _____

101. Present land use

1. Cg _____
2. Cu _____
3. Cr _____
4. Ca _____
5. Pn _____

APPENDIX C

INTRODUCTION

The Land Utilization division realized that the information gathered by the survey crew, to be of practical value, had to be made available to the farmers of the county. In order to do this a series of community meetings were held throughout Baca county. At these meetings the materials collected by the survey were presented. A discussion was then held with the farmers concerning their problems.

When the community meetings were completed a county committee, made up of representative farmers, was selected to study the matter farther. Their first step was to divide the county into areas according to land use and soil types. The committee then recommended certain definite farm practices for each area. The following pages contain the complete record of these recommendations.

BACA COUNTY, COLORADO
AREA I

Location - North central and northeastern part of county

Size - 506,859 acres

Soils - Predominantly heavy textured loam silty clay surface soils with decidedly heavier subsoils and lime concretions at 18 inches or less below the surface.

Present and Suggested Use:

Use	Present		Suggested		Change
1. Cultivated Land	276,702A	54.3%	126,713A	25%	-149,989
2. Native Pasture	230,157A	45.7%	380,146A	75%	+149,989
3. Cultivated Land:	506,859A	100.0%	506,859A	100.0%	
(1) Wheat	10,861A	3.9%	(43,555A)*	34.4%	32,694
(2) Hay	648A	.3%	648A	.5%	-
(3) Row Crop	49,857A	18.0%	(49,857A)*	39.3%	-
(4) Fallow	32,653A	11.8%	(32,653A)*	25.8%	-
(5) Idle	42,385	15.3%	none		- 42,385
(6) Abandoned	140,293A	50.7%	none		-140,293
Total	276,702A	100.0%	126,713A	100.0%	
4. Native Pasture:					
(1) Within Oper.					
Unit	77,045	33.5%	380,146A either owned or leased by operators. Possible need for co-operative grazing associations. Necessitates returning 149,989A present cultivated land to grass.		
(2) "Open"	153,112	66.5%			
Total	230,157	100.0%			

*County Committee recommended that row crop and wheat acreages dependent on seasons. The suggested figures are set up temporarily in that any changes the county committee might wish may be made. The increase in wheat will require use of some idle or abandoned crop land. It will be necessary to determine what land may be still used for production and what should be retired.

General Recommendations;

1. **Row crop** and wheat acreages dependent on season.
2. Area should support cooperative grazing associations.
3. Area is suitable for strip cropping wheat with row crops.
4. No part of the area adapted to wheat production alone.
Diversification must be a part of the enterprise.
5. Possible development of shallow water in eastern portion.

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3. The third is the fact that the

4. The fourth is the fact that the

5. The fifth is the fact that the

6. The sixth is the fact that the

BACA COUNTY, COLORADO
AREA 2

Location - Northwest corner of county

Size - 134,595 acres

Soils - Predominantly loam. Rough, broken land.

Present Suggested Use:

Use	Present	Suggested	Change
1. Cultivated Land	16,360A 12.1%	6,725A 5.0%	-9,635A
2. Native Pasture	118,235A 87.9	127,870A 95.0	+9,635A
Total	134,595A 100.0	134,595A 100.0	
3. Cultivated Land:			
(1) Wheat	360A 2.2	None	- 360A
(2) Row Crop	5,100A 31.2	6,725A 100.0	+1,625A
(3) Fallow	275A 1.7	None	- 275A
(4) Idle	3,175A 19.4	None	-3,175A
(5) Abandoned	7,450A 45.5	None	-7,450A
	16,360A 100.0	6,726A 100.0	
4. Native Pasture:			
(1) Within Oper.			
Unit	53,925A 45.6	127,870A	either owned or
(2) "Open"	64,310A 54.4		leased by operators.
Total	118,235A 100.0		Possible need for co-
			operative grazing associ-
			ations. Necessitates re-
			turning 9,635A present
			cultivated land to grass.

General Recommendations:

1. Cultivated land $4\frac{1}{2}$ to 5% of total area
2. Pasture land - 95% of total area.
3. Cultivated land all used for row crops.
4. Increased use of water spreading.
5. Need protection to prevent outside stock from using range resources.
6. Possible need for cooperative grazing associations.

[illegible]

Young's *Journal of the Sea and Shore* - 1842

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[illegible]

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* *Revised and expanded edition of the first book published in 1975.*

• THE FIRST TWO MONTHS OF THE NEW YEAR

[illegible]

BACA COUNTY, COLORADO
AREA 3

Location - South of east central portion

Size - 33,600 acres

Soils - Heavy textured silty clay loams surface soils with decidedly heavier subsoils and numerous lime concretions below 18 inches.

Present and Suggested Use:

Use	:	Present	:	Suggested	:	Change
1. Cultivated land		19,310A 57.5%		11,088A 33.0%		-8,222A
2. Native Pasture		14,290A 42.5		22,512A 67.0		18,222A
Total		33,600A 100.0		33,600A 100.0		
3. Cultivated Land:						
(1) Wheat		4,080A 21.1		50.0		
(2) Row Crop		4,090A 21.2		25.0		
(3) Fallow		- -		25.0		
(4) Idle		1,980A 10.3		-		-1,980A
(5) Abandoned		9,160A 47.4		-		-9,160A
Total		19,310A 100.0		11,088A 100.0		
4. Native Pasture:						
(1) Within Oper.						
Unit		5,450A 38.1		22,512A either owned or		
(2) "Open"		8,840A 61.9		leased operators.		
Total		14,290A 100.0		Necessitates returning		
				8,222A present culti-		
				vated land to grass.		

General Recommendations:

1. Cultivated land 33% of total area.
2. Pasture land 67% of total area.
3. Under present farming practice land is not adapted to row crop production.
4. Enough should be produced to allow diversification with livestock.
5. Soil is best adapted to small grains.
7. Each unit needs pasture for stock.

[illegible][illegible]

1. *Staphylococcus aureus* 2. *Staphylococcus aureus*

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

Journal of Management Studies, 19(1), 67-80.

BACA COUNTY, COLORADO
AREA 4

Location - East central portion

Size - 204,741 acres

Soils - Fine sandy loam to loam surface soils and precominantly loam silty clay surface soils.

Present and Suggested Use:

Use	:	Present	:	Suggested	:	Change
1. Cultivated land		131,490A	64.2%	92,033	45.0%	-39,457
2. Native Pasture		73,251A	35.8	112,708	55.0	+39,457
Total		204,741A	100.0	204,741	100.0	
3. Cultivated land:						
(1) Wheat		8,025A	6.1		33.3	
(2) Row Crop		53,423A	40.6		33.3	
(3) Fallow		8,951A	6.1		33.3	
(4) Idle		14,013A	10.7			-14,013
(5) Abandoned		47,978A	36.5			-47,978
Total		131,490A	100.0		100.0	
4. Native Pasture:						
(1) Within Oper.						
Unit		40,487	55.3	112,708A either owned or leased by operators. Necessitates returning 39,457A present cultivated land to grass.		
(2) "Open"		32,765A	44.7			
Total		73,251A	100.0			

General Recommendations:

1. Cultivated land 40 to 45% of total area.
2. Pasture land 55 to 60% of total area.
3. Cultivated acreage should be largely in row crops with some small grains.
4. Larger units are needed in this area.
5. Area offers best opportunity to diversify.
6. Possibility of relocation of some farmers now on poor land.
7. Government loans should aid in stabilizing this area.

UNITED STATES DEPARTMENT OF AGRICULTURE

ANNUAL REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

FOR THE YEAR ENDING JUNE 30, 1904

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1905.

1905-1906

LANDS	ACRES	AMOUNT	PERCENT	REMARKS
1. Public lands	1,000,000	100,000	10.00	
2. Private lands	1,000,000	100,000	10.00	
3. Indian lands	1,000,000	100,000	10.00	
4. Military lands	1,000,000	100,000	10.00	
5. Naval lands	1,000,000	100,000	10.00	
6. Railroad lands	1,000,000	100,000	10.00	
7. School lands	1,000,000	100,000	10.00	
8. Other lands	1,000,000	100,000	10.00	
Total	1,000,000	100,000	10.00	

BACA COUNTY, COLORADO
AREA 5

Location - West central to south central portion

Size - 413,942 acres

Soils - Fine sandy loam to loam surface soils and loamy sands and lighter sandy surface soils.

Present and Suggested Use:

Use	Present	Suggested	Change
1. Cultivated Land	249,557A. 69.3%	103,485A 25.0%	-146,072
2. Native Pasture	164,385A 39.7	310,457A 75.0	+146,072
Total	413,942A 100.0	413,942 100.0	
3. Cultivated Land:			
(1) Wheat	3,481A 1.4		
(2) Row Crop	125,814A 50.4		
(3) Fallow	10,024A 4.0		
(4) Idle	15,602A 6.3	None	- 15,602
(5) Abandoned	94,636A 37.9	None	- 94,636
Total	249,557A 100.0	None	
4. Native Pasture:			
(1) Within Oper.			
Unit	94,143A 57.3	310,457A either owned or	
(2) "Open"	70,242A 42.7	leased by operators. Nec-	
Total	164,385A 100.0	essitates returning 146,072A	
		present cultivated land to	
		grass.	

General Recommendations:

1. Cultivated land 25% of total land area.
2. Pasture land 75% of total land area.
3. Cultivated land used mostly for row and forage crops.
4. Need for soil and moisture conserving practices.
Land use problem less aggravated than other areas.
5. Must practice diversification.

OF MEDICINE AND PHYSICS

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ARTS AND SCIENCES

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1870	1871	1872	1873	1874	1875
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1966	1967	1968	1969	1970	1971
1972	1973	1974	1975	1976	1977
1978	1979	1980	1981	1982	1983
1984	1985	1986	1987	1988	1989
1990	1991	1992	1993	1994	1995
1996	1997	1998	1999	2000	2001
2002	2003	2004	2005	2006	2007
2008	2009	2010	2011	2012	2013
2014	2015	2016	2017	2018	2019
2020	2021	2022	2023	2024	2025

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BACA COUNTY, COLORADO
AREA 6

Location - Southwest and extreme southern portion

Size - 341,380 acres

Soils - Loamy sands and lighter sandy surface soils and loam silty clay surface soils.

Present and Suggested Use:

Use	:	Present	:	Suggested	:	Change
1. Cultivated land		72,250A 21.1%		34,138A 10.0%		-38,112A
2. Native Pasture		269,130A 78.9		307,242A 90.0		38,112A
Total		341,380A 100.0		341,380A 100.0		
3. Cultivated land						
(1) Wheat		840A 1.2		- -		- 840A
(2) Row Crop		45,512A 63.0		34,138A 100.0		
(3) Fallow		- -		- -		-
(4) Idle		7,495A 10.4		-		7,495A
(5) Abandoned		18,403A 25.4		-		-18,403A
Total		72,250A 100.0				
4. Native Pasture:						
(1) Within Oper.						
Unit		178,808A 66.4		307,242A		either owned or
(2) "Open"		90,322A 33.6				leased by operators.
Total		269,130A 100.0				Possibility for cooperative
						grazing association or
						similar set up formed.
						Necessitates returning
						38,112A present cultivated
						land to grass.

General Recommendations:

1. Cultivated land 10% of total area.
2. Pasture land 90% of total area.
3. Cultivated land in row crops.
4. Area not adapted to small grains.
5. Area adapted to livestock and cooperative grazing associations advisable.

APPENDIX D

LONG TIME SAFE FARM PROGRAM

In setting up this long time program in agriculture for Baca county the following agencies or their representatives, assisted at a number of different meetings at which it was endeavored to set up the different problems that confronted the county as a whole.

A. Co-operators

1. County Planning Committees
 - a. Community Planning Committees
2. Agricultural Conservation Committeemen
3. Home Demonstration Clubs
4. Bankers
5. Soil Conservation Service
6. Farm Security Administration
7. Farm Credit Administration
8. Bureau of Agricultural Economics
9. Springfield Chamber of Commerce
10. Local Granges
11. Prominent Individuals
12. 4-H Club Councils
13. Other individuals such as representative type farmers and stockmen.

B. Source of Information

1. Above agencies at group meetings
2. Contact representatives of the above agencies

It is to be observed that the following names are given as being at a number of different places at which it was necessary to go in the 18th century and that the names of the places are given in the margin.

4. Co-ordinators

1. County of Lincoln
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98. County of Lincoln
99. County of Lincoln
100. County of Lincoln

- individually for authentic information on certain points brought to mind by the group as a whole
3. Tabulating facts by talks to individual farmers
 4. Points brought out
 - a. Educational Meetings
 - b. Studying summaries of various surveys made in the county
 - c. Studying maps accompanying these surveys
 - d. Problems attacked by the Soil Erosion District
- C. Listing of the problems that are paramount at the present time.
1. These can not be listed in the order of their importance because they are based on the county as a whole and their order may be classed different by individuals
- D. Problems
1. Too low income
 - a. Units unbalanced
 - b. Not enough diversification (Livestock & crop)
 - c. Marketing
 - d. Yields
 - e. Farm practices
 - f. Low value of crops
 2. Lack of stability
 - a. Physical nature of soil
 - b. Wind erosion
 - c. Uncertainty of moisture

1. The following are the main points of the report:

2. The first point is that the report is a summary of the work done during the last year.

3. The second point is that the report is a summary of the work done during the last year.

4. The third point is that the report is a summary of the work done during the last year.

5. The fourth point is that the report is a summary of the work done during the last year.

6. The fifth point is that the report is a summary of the work done during the last year.

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12. The eleventh point is that the report is a summary of the work done during the last year.

13. The twelfth point is that the report is a summary of the work done during the last year.

14. The thirteenth point is that the report is a summary of the work done during the last year.

15. The fourteenth point is that the report is a summary of the work done during the last year.

16. The fifteenth point is that the report is a summary of the work done during the last year.

17. The sixteenth point is that the report is a summary of the work done during the last year.

18. The seventeenth point is that the report is a summary of the work done during the last year.

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20. The nineteenth point is that the report is a summary of the work done during the last year.

21. The twentieth point is that the report is a summary of the work done during the last year.

22. The twenty-first point is that the report is a summary of the work done during the last year.

23. The twenty-second point is that the report is a summary of the work done during the last year.

24. The twenty-third point is that the report is a summary of the work done during the last year.

25. The twenty-fourth point is that the report is a summary of the work done during the last year.

26. The twenty-fifth point is that the report is a summary of the work done during the last year.

- d. Tenancy
- 3. Indebtedness
 - a. High interest rate
 - b. Misuse of land
 - c. Debt structure of land
 - d. Too much credit for machinery
- 4. Taxation
 - a. Range land taxes prohibited for raising livestock
 - 1. Carrying capacity too low
 - 2. Rent cheaper than owned
 - 3. Re-classification of land based on actual use rather than potential
 - 4. Re-organization of school districts
- 5. Unsatisfactory Home Live
 - a. Rural Education
 - b. Poor Homes
 - 1. Inadequate water supply
 - 2. Lights
- 6. Unattractive Home Surroundings

The solutions to these problems are going to be taken up by the planning committee at a later date.

1. General

2. Identification

3. Identification

4. Distance of land

5. Date received of land

6. The number of the building

7. Location

8. Name of the person who has been identified

9. General description of the land

10. Name of the person who has been identified

11. Description of the land

12. Name of the person who has been identified

13. Description of the land

14. Description of the land

15. General description

16. Name of the person who has been identified

17. Description of the land

18. Name of the person who has been identified

19. Description of the land

20. Name of the person who has been identified

21. Description of the land

